

1991 Documents

IEEE Neural Networks Council

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The IEEE Neural Networks Council is now the IEEE Computational Intelligence Society

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JASOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASSOY, JR., CPA
WILLIAM L. GRAFF, CPA
ROBERT E. DOUGLAS, CPA
DAVID K. ENZELBACH, CPA
DANIEL P. MERRIFIELD, CPA
FRANCINE N. MEYER, CPA

7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92037
(619) 454-3188
FAX (619) 454-3564

February 20, 1991

Mr. Patrick K. Simpson
Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, CA 92128

Dear Pat:

In response to your request, outlined below is the chain of events relating to our engagement to perform the audit of the Third Annual International Joint Conference on Neural Networks held June 18 through 22, 1989.

- Coopers & Lybrand was retained on February 13, 1990 by Russ Eberhart to audit the conference. I was the audit manager responsible for the past audits of IEEE conferences and the person who dealt directly with Mr. Eberhart on this engagement. Upon my resignation from Coopers & Lybrand in February 1990, the partner on the engagement requested that I continue to handle this audit for Coopers & Lybrand with the understanding that they would review the workpapers and issue the report.

Mr. Eberhart instructed us to contact Dr. DeClariss, Treasurer of the Conference and Meeting Management, the Company retained by IEEE to coordinate the conference, to obtain the records to be audited. The attached letter, dated March 8, 1990, requested the applicable records from Dr. DeClariss. He responded by telephone that he would need time to organize the information and, due to his schedule, this was an inopportune time. He indicated it would take a few weeks.

- As requested by Dr. DeClariss by phone on May 31, 1990, Jassoy, Graff & Douglas again requested documents from Dr. DeClariss by telecopier. A copy of the telecopier transmittal is also attached.
- During the course of the two month period, March through June, I was in contact with you and Mr. Eberhart to determine what steps I should take to effect the audit. I was informed that we could obtain the cancelled checks and bank statements directly from the respective banks. Meeting Management had copies of the invoices. With the combination we were able to complete the audit.

JASSOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

Mr. Patrick K. Simpson
Treasurer
IEEE Neural Networks Council

-2-

February 20, 1991

- Dr. DeClaris volunteered by telephone that it appeared to be better if he brought the records we requested on June 1, 1990 in person and meet with me in San Diego on June 18 and/or June 19. I was scheduled to be out of town both of those days. On June 24, 1990 he corresponded by letter (attached) and sent copies of the materials that he would have personally given to me.

We proceeded with the audit during the month of May using the documents obtained from the banks and those retained by Meeting Management. We did compare the information sent to us by Dr. DeClaris to our work to ensure that we had classified the information correctly.

Jassoy, Graff & Douglas completed their portion of the work on August 3, 1990 and forwarded the workpapers to Coopers & Lybrand for their final review. The final report was issued by Coopers & Lybrand on December 19, 1990.

I hope this provides the information you need.

Sincerely,



Patricia A. Sbarbaro
Audit Manager

PAS:ec

Enclosures



JASOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASOY, JR., CPA
WILLIAM J. GRAFF, CPA
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7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92037
619-454-4188
FAX 619-454-4564

March 8, 1990

Nicholas de Claris, M.D.
School of Medicine
University of Maryland
Howard Hall
660 W. Redwood Street
Baltimore, MD 21201

Dear Dr. de Claris:

Coopers & Lybrand has been retained by the Institute of Electrical and Electronic Engineers, Inc. to perform an audit of the IJCNN 1989 conference. A copy of that engagement letter is attached. I will be in charge of the fieldwork and, therefore, your contact, should you have questions regarding the audit. Thank you for your assistance with this audit.

In that regard, would you please forward the following records for that conference to my attention at the following address.

Jasoy, Graff & Douglas
Certified Public Accountants
7777 Fay Avenue, Suite 100
La Jolla, CA 92037

I understand the records you have include invoices for speakers expenses, check books and bank statements for both checking and saving. Due to the nature of these items, please send them via Federal Express or a comparable carrier to ensure their safe arrival, as soon as possible.

Sincerely,

Patricia A. Sbarbaro

PAS:cc

Enclosure

Coopers
& Lybrand

Certified public accountants

401 West A Street
San Diego, California 92101

in principal areas of the world

telephone (619) 232-8000

February 13, 1990

Institute of Electrical and
Electronics Engineers, Inc.
c/o Mr. Russ Eberhart
6770 Halfcrown Court
Columbia, Maryland 21044

Dear Mr. Eberhart:

This letter confirms the nature and scope of our engagement to audit the statement of revenue and expenses of the Institute of Electrical and Electronics Engineers, Inc.'s International Joint Conference on Neural Networks held in June 1989. The statement will be prepared on a cash basis and will not be intended to present results in conformity with generally accepted accounting principles.

Our audit of your statement of revenue and expenses will be made in accordance with generally accepted auditing standards and will include such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. The objective of such an examination is the expression of our opinion on whether the statement presents fairly the results of operations on a cash basis.

Additionally, we will examine the allocation of revenue and expenses of the Conference between the Conference and the tutorial program. We will also examine the allocation of revenue and expense between the participating organizations based on provisions contained within Conference contracts.

As a part of our audit, we will consider the Institute's internal control structure, as required by generally accepted auditing standards, for the purpose of establishing a basis for determining the nature, timing, and extent of auditing procedures necessary for expressing our opinion concerning the financial statements.

Our audit will include procedures designed to provide reasonable assurance of detecting errors and irregularities that are material to the financial statements. However, as you are aware, there are inherent limitations in the auditing process. For example, audits are based on the concept of selective testing of the data being examined and are, therefore, subject to the limitation that such matters, if they exist, may not be detected. Also, because of the characteristics of irregularities, including attempts at concealment through collusion and forgery, a properly designed and executed audit may not detect a material irregularity.

*Cliff has reviewed copy in file -
Signed by Russ Eberhart for IEEE*

Institute of Electrical and
Electronics Engineers, Inc.
February 13, 1990
Page Two

Similarly, in performing our audit we will be aware of the possibility that illegal acts may have occurred. However, it should be recognized that our audit provides no assurance that illegal acts generally will be detected, and only reasonable assurance that illegal acts having a direct and material effect on the determination of financial statement amounts will be detected. We will inform you with respect to illegal acts or material errors and irregularities that come to our attention during the course of our audit.

You recognize that the financial statements and the establishment and maintenance of an internal control structure are the responsibility of management. Appropriate supervisory review procedures are necessary to provide reasonable assurance that adopted policies and prescribed procedures are adhered to and to identify errors and irregularities or illegal acts. As part of our aforementioned consideration of the Institute's internal control structure, we will inform you of matters that come to our attention that represent significant deficiencies in the design or operation of the internal control structure.

Generally accepted auditing standards require that we communicate certain additional matters to you or, alternatively, assure ourselves that management has appropriately made you aware of those matters. Such matters specifically include (1) the initial selection of and changes in significant accounting policies and their application; (2) the process used by management in formulating particularly sensitive accounting estimates and the basis for our conclusions regarding the reasonableness of those estimates; (3) audit adjustments that could, in our judgment, either individually or in the aggregate, have a significant effect on your financial reporting process; (4) any disagreements with management, whether or not satisfactorily resolved, about matters that individually or in the aggregate could be significant to the financial statements or our report; (5) our views about matters that were the subject of management's consultation with other accountants about auditing and accounting matters; (6) major issues that were discussed with management in connection with the retention of our services, including, among other matters, any discussions regarding the application of accounting principles and auditing standards; and (7) serious difficulties that we encountered in dealing with management related to the performance of the audit.

Our fee for the audit will be \$7,000 to \$8,000, plus out-of-pocket expenses. We anticipate completing the engagement by March 1, 1990 unless unexpected factors are encountered.

If you concur with the foregoing arrangements, please indicate by signing in the space provided on the attached copy of this letter and return it to us in the enclosed self-addressed envelope.

Institute of Electrical and
Electronics Engineers, Inc.
February 13, 1990
Page Three

If you have any questions regarding the arrangements, please do not hesitate to contact Mr. G. Steve Hamm or Ms. Pat Sbarbaro. We appreciate the opportunity to serve Institute of Electrical and Electronics Engineers, Inc. and assure you of our sincere interest in continuing our professional relationship with your Company.

Very truly yours,

GSH:PAS:cls
Enclosures

Institute of Electrical and
Electronics Engineers, Inc.
February 13, 1990
Page Three

If you have any questions regarding the arrangements, please do not hesitate to contact Mr. G. Steve Hamm or Ms. Pat Sbarbaro. We appreciate the opportunity to serve Institute of Electrical and Electronics Engineers, Inc. and assure you of our sincere interest in continuing our professional relationship with your Company.

Very truly yours,

GSH:PAS:cls
Enclosures

Date Prepared	5/31/90
Prepared by	RM
Reviewed by	
Approved by	

IEEE/ITCMM
PHONE CONVERSATIONS
ACTIVITY RELATING TO JUNE 19-22, 1989 ITCMM

5/31/90 per DW DR DECLARIS he indicated that
he will send what we need to finish
the audit. However, he would like us
to send him a Fax of the items we
would to have:

Date Prepared
Prepared by
at C & L
of Client and
Submitted by
Approved by
DATE

NICK DE CIARIS -

FAXE (301) - 328 - 8013

1) FAX A LIST OF DOCUMENTS WE HAVE
and what we need to FINISH

2) A/c # of operating a/c.

1991 IEEE Neural Networks Council Document
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MESSAGE CONFIRMATION

JUL-01-'90 09:19

TRANSMIT RECORD

TERM ID: JASSOY GRAFF DOUGLAS
TEL NO: 6194543564

NO.	DATE	ST. TIME	TOTAL TIME	#PGS	I D	ABB. NO	DEPT. CODE
863	06-01	09:16	00°02'12	OK- 3 NG- 0	(301) 328-8013		



JASSOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASSOY, JR., CPA
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7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92017
(619) 454-1188
FAX (619) 454-3564

FAX (619) 454-3564

TELECOPIER TRANSMITTAL LETTER

PLEASE DELIVER THE FOLLOWING MATERIAL AS SOON AS POSSIBLE

DATE: 2/11/90

TO: DR. DeLazis

COMPANY: _____

PROJECT: 89 ITCNIN Audit

FAX #: (301) 328-8013

PHONE #: _____

FROM: RAY WOOD

NUMBER OF PAGES (INCLUDING COVER SHEET): 3

PLEASE CALL US IMMEDIATELY IF ALL PAGES ARE NOT RECEIVED PROPERLY. OUR PHONE NUMBER IS (619) 454-3188.

MESSAGE: Please send the information
we need via overnight delivery
as soon as you get it together.
Thank you.

File Prepared	5/31/90
Prepared by	ZW
Checked by	
Reviewed by	
Approved by	

10FZ

Dr. Declaris,

The following are items that
we have obtained from Nomi Feldman;

- CALIF. 1ST FROM 11/89 - 12/89

ALC # 0561175654 - operating A/c

- CALIF. 1ST FROM 3/89 - 9/89

ALC # 0560000170 - Depository A/c.

- DISBURSEMENT JOURNAL 10/19/88 - 11/20/89

- ORIGINAL INVOICES PAID BY THE
operating A/c.

- INVOICES FROM SHERATON WASHINGTON
HOTEL AND SPEAKER EXPENSES -
TRAVEL REIMBURSEMENTS.

The following are items that we
need to complete our engagement;

we have obtained from Nomi Feldman:

- CALIF. 1ST FROM 11/89 - 12/89

ALC # 0561175654 - operating ALC

- CALIF. 1ST FROM 3/89 - 9/89

ALC # 0560000170 - Depository ALC.

- DISBURSEMENT JOURNAL 10/19/88 - 11/20/89

- ORIGINAL INVOICES paid by the
operating ALC.

- INVOICES FROM Sheraton Washington
HOTEL and Speaker Expenses -
TRAVEL REIMBURSEMENTS.

The following are items that we
need to complete our engagement;

- ALL BANK STATEMENTS and cancelled
checks for the checking ALC that
you maintained

CONT'D

1. Date and 2. Entered by
Approved by
3. SUSEP

20F2

CONT'D

- All INVOICES that you have relating
to the '89 ITENN.

- ANY UNPAID INVOICES that relate
to the '89 ITENN.

- YOUR WORKSHEET of CASH DISBURSEMENTS
FOR the ITENN '89.

If you have any questions, please
give me a call.



SYSTEMS, MAN, AND CYBERNETICS SOCIETY

PLEASE REPLY TO

Ms Patricia A. Sbarbaro
Jasoy, Graff and Douglas
Certified public Accountants
777 Fay Avenue, Suite 100
La Jolla, California 92037

June 24, 1990

Dear Pat:

Sorry I missed your telephone call on Friday. I return the call but missed you again. After another unsuccessful try, I thought best to drop you this note and enclose some information which may prove useful with your assignment.

On June 1, 1990 I received a FAX from your partner Ray Wood, updating me as to the state of the audit and requesting three items that I would assist you with the audit. As told you over the phone then it appeared to me better if I brought them in person and met with you in San Diego on June 18 and/or June 19.

When I got in San Diego your office advised me that you had to go out of town and that you will be returning on June 20th. As I had other commitments, I could not change my travel plans and had to leave on that day. I regret I did not get to meet with you and to give you the material I had brought with me:

- 1) A copy of the IJCNN89 Finance-Flow
- 2) A copy of the IJCNN 1989 Washington Operating Budget
- 3) A copy of the IJCNN 1989, Washington Account - Cash Dispersement
- 4) Two notebooks of original invoices paid by the Washington Account

Enclosed please find the first three items. At this time, I am reluctant to separate from the last item. Too, I need help to prepare a Final Financial Report for the IJCNN89, and I lack financial information that at this point only you have. If it is possible for you to visit this area please let me know and I shall make every effort to accommodate your schedule. Otherwise there is a possibility for me to come to San Diego during the third week in July.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nicholas DeClaris', written over a horizontal line.

Nicholas DeClaris

Enclosures (3)

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JCNN 1989, Washington Account - Cash Dispersment

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
	101	Void			25000.00		25000.00
1/26	102	Meeting Management	3	1a1,1a2,1a3,111a1,111a2		3650.56	21349.44
	103	IEEE JCNN 89 - San Diego	1a	1b3 - 1/2/12		10200.00	11149.44
	104	Meeting Management	Advance	11a2		2000.00	9149.44
	105	Ingrid Kramer	24a	Xb4		482.00	8667.44
					16000.00		24667.44
3/16	106	IEEE	1	111a1		694.16	23973.28
3/16	107	Modern Printing and Mailing	2	1b2, 1b3,1b4		1310.27	22663.01
3/16	108	Meeting Management	5	111a2		765.00	21898.01
3/16	109	Modern Printing and Mailing	4	1b3,1B4		775.74	21122.27
3/16	110	AA for AI	4	1b1		1259.40	19862.87
3/16	111	Designs	6	1c2		1860.46	18002.41
4/7	112	Wes Synder	25A	Xb4		446.03	17556.38
	113	Meeting Management	2	X1b3		620.00	16936.38
	114	Modern Printing and Mailing	10	1b2,1b3,1b4		7664.68	9271.70
	115	PDQ Printers	8,9	1Xa,11a2,11a1		434.09	8837.61
4/11	116	Jacob and Assoc	11	1c1		450.50	8387.11
4/11	117	Meeting Management	16	111a6		980.00	7407.11
4/12					8000.00		15407.11
	118	void					15407.11
4/19	119	IEEE Inc	17	1b1		3757.51	11649.60
4/19	120	PDQ Printers	18	11a1		177.83	11471.77
4/19	121	IEEE	19	1d		600.00	10871.77
4/19					8000.00		18871.77
4/20	122	N. DeClaris	25b	Xb10		922.42	17949.35
	123	void					17949.35
	124	void					17949.35
	125	void					17949.35
4/23	126	Meeting Management	5a	11a1		193.67	17755.68
5/2					30000.00		47755.68
5/6	127	IEEE, Fed ID 13-1656633N	19	1d		375.00	47380.68
5/8	128	IEEE, JCNN '89	15	Advance & 111a2		4292.64	43088.04

*Agreed class for ...
this schedule is prepared and ...*

1991 IEEE Neural Networks Council Document
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IJCNN 1989, Washington Account - Cash Dispersement

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
5/10	129	VOID (IEEE)	25			0.00	43088.04
5/10	130	void					43088.04
5/10	131	AAAI	21	Id		1566.25	41521.79
5/10	132	SOS Printing	20a	IVb		23000.00	18521.79
5/15	133	Void					18521.79
5/15	134	Meeting Management	26	Va1, Va3, Ve, Vj, Vk		7100.00	11421.79
5/15	135	Carol Bonomo	12	Xa		400.00	11021.79
5/15	136	PDQ Printers	27	IIa1		92.07	10929.72
5/15	137	Void					10929.72
5/15	138	Personal Touch West	32	Va2		4100.00	6829.72
5/15	276	Wes Snyder		Xb4		797.92	6031.80
5/24	277	Laurel Printing		III		7.45	6024.35
5/24	278	Postmaster Laurel		III		70.50	5953.85
5/19					9000.00		14953.85
5/24	279	C&P Telephone		III		115.62	14838.23
5/30	139	Meeting Management	30	Adv, Vc1		6600.00	8238.23
	140	Karen Haines	14	VIIIg		1350.00	6888.23
	141	Void					6888.23
6/6	142	Meeting Management	31	IIa5		300.00	6588.23
6/6	143	Designs	35	IVa2, VIIIa, Va4		3780.52	2807.71
6/8					9000.00		11807.71
6/12	144	ICNN '89	34	Vd		2000.00	9807.71
6/12	145	Void					9807.71
					100000.00		109807.71
6/16	146	C&P Telephone	36a	IIId		97.27	109710.44
6/20	147	Modern Printing & Mailing	20	Ic3, Ic4		250.72	109459.72
6/16	148	Sheraton Washington Hotel	35a	Hotel		37000.00	72459.72
6/18	149	Meeting Management	29	IIId		4000.00	68459.72
6/19	150	SOS Printing	37	V4		7020.00	61439.72
6/19	151	SOS Printing	38	VIIIa		10325.00	51114.72
6/19	152	SOS Printing	39	IVb		675.00	50439.72
6/19	153	SOS Printing	40	IVb		23700.00	26739.72
6/19	154	SOS Printing	41	IXa		2025.00	24714.72

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JCNN 1989, Washington Account - Cash Dispersement

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
6/19	155	SOS Printing	42	IVb		50.00	24664.72
6/19	156	Personal Touch West	43	Va2		4923.06	19741.66
6/21	280	Shumidii Amari	EC2	XII		2471.00	17270.66
6/21	281	T. Eckmiller	EC3	XII		1156.00	16114.66
6/21	282	T. Kohonen	EC1	XII		1140.00	14974.66
6/21	283	K. Fukushima	EC16	XII		1609.47	13365.19
6/22	284	V. Kriosov	EC4	XII		1435.00	11930.19
6/22	285	Meeting Management	44	Vc		3000.00	8930.19
6/22	286	Allen Stubberud		Xb3		990.00	7940.19
6/22					20000.00		27940.19
6/23	287	Sheraton Washington Hotel		Xb10		1078.46	26861.73
6/23					14410.00		41271.73
6/26					18236.00		59507.73
6/20	157	Peter Foldiak	R38	Rcfund		50.00	59457.73
6/21	158	Geof Yeun	R37	Rcfund		175.00	59282.73
6/21	159	Ron Sun	R36	Rcfund		50.00	59232.73
6/21	160	Robert Breyer	R35	Rcfund		277.00	58955.73
6/22	161	SOS Printing	44	Vc		1287.00	57668.73
6/30	162	Projection Video Services	47a	Vb		9631.79	48036.94
6/30	163	Projection Video Service	48A	VIIIb		2990.70	45046.24
6/30	164	Projection Video Service	50A	Vb		157.41	44888.83
6/30	165	Projection Video Service	49A	Vb		67.96	44820.87
7/7	166	IEEE	36	IIIa1		170.42	44650.45
	167	Andrews, Bartlett & Assoc Inc	48	Vi, IXb		7904.73	36745.72
7/3					100000.00		136745.72
7/18	291	C&P Telephone		III		102.28	136643.44
7/21					200000.00		336643.44
7/14	168	Nabil Farhat	EC5	XII		660.00	335983.44
	169	Lee A. Riui	R1	Rcfund		250.00	335733.44
	170	Carnegie Mellon Univ	R2	Rcfund		497.00	335236.44
	171	Roy Williams	R3	Rcfund		242.00	334994.44
	172	Raymond Lam	R4	Rcfund		625.00	334369.44
	173	Travelers Insurance Co	R5	Rcfund		572.00	333797.44

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IJCNN 1989, Washington Account - Cash Dispersement

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
	174	Donald Friensen	R6	Refund		194.00	333603.44
	175	Void					333603.44
	176	Jeffery F. Nicoll	R7	Refund		372.00	333231.44
	177	Void					333231.44
7/26					100000.00		433231.44
7/28	178	Sheraton Washington Hotel	47	Hotel		64075.20	369156.24
7/31	288	Wes Synder		Xb4		325.24	368831.00
7/31	289	Carol Bonomo	EC13	XII		188.00	368643.00
7/31	290	Harold Szu	EC17	XII		465.00	368178.00
8/10	179	IEEE	51A	Return Adv.		16000.00	352178.00
8/10	180	IEEE	51A	Return Adv.		25000.00	327178.00
8/17	181	Sheraton Washington Hotel	47	Hotel		19513.28	307664.72
	182	void					307664.72
	183	Brian Lehr	R11	Refund		500.00	307164.72
	184	Ken Kleinberg	R12	Refund		162.00	307002.72
	185	Hsi-Lo Liu	R13	Refund		250.00	306752.72
7/15	186	Joseph Antonik	R14	Refund		194.00	306558.72
7/15	187	A. Stein	R15	Refund		122.00	306436.72
9/12	188	Mitre Corp (Eric Braude)	R29	Refund		250.00	306186.72
	189	Dale Shultz	R16	Refund		412.00	305774.72
	190	Loral	R18	Refund		194.00	305580.72
	191	GMI	R21	Refund		319.00	305261.72
	192	Geoffrey Hinton	R23	Refund		162.00	305099.72
7/15	193	Soo-Young Lee	R27	Refund		250.00	304849.72
7/28	194	Dr. Halbert White	R	Refund		530.00	304319.72
7/28	195	Charles Elbaum	EC7	XII		274.15	304045.57
7/28	196	Gail Carpenter	EC8	XII		1289.50	302756.07
7/28	197	Robert Hecht-Nielsen	EC6	XII		150.00	302606.07
	198	allon Guez	EC9	XII		502.73	302103.34
	199	Patricia Smith Churchland	EC10	XII		1040.00	301063.34
	200	Terry Sejnowski	EC11	XII		1220.00	299843.34
	201	void					299843.34
	202	void					299843.34

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IJCNN 1989, Washington Account - Cash Dispersement

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
	203	Dr. M Kuperstein	EC12	XII		518.00	299325.34
8/8	204	VOID				0.00	299325.34
8/8	205	Eiichi Sawaki	R33	Refund		56.00	299269.34
8/14	206	Personal Touch West	49	V1b		684.34	298585.00
9/12	207	Helge Ritter	EC14	XII		435.00	298150.00
	208	VOID					298150.00
	209	VOID					298150.00
	210	VOID					298150.00
	211	VOID					298150.00
9/12	212	Harry Goldberg	R34	Refund		145.00	298005.00
9/12	213	APL (Paul Bade)	R17	Refund		535.00	297470.00
9/12	214	Hughes Aircraft	R20	Refund		372.00	297098.00
9/12	215	Void					297098.00
9/12	216	CDI Technologies	R25	Refund		372.00	296726.00
9/12	217	CDI Technologies	R26	Refund		410.00	296316.00
9/12	218	William Morgart	R28	Refund		125.00	296191.00
9/12	219	Walter Peterson	R32	Refund		219.00	295972.00
9/12	220	Leon Cooper	T2	VIIIa		5825.00	290147.00
9/12	221	David Casasent	T1	VIIIa		5050.00	285097.00
9/12	222	John Daugman	T3	VIIIa		4550.00	280547.00
9/12	223	Walter Freeman	T4	VIIIa		4200.00	276347.00
9/12	224	Stephen Grossberg	T5	VIIIa		4862.50	271484.50
9/12	225	Morris Hirsch	T6	VIIIa		4600.00	266884.50
9/12	226	John Hopfield	T7	VIIIa		6312.50	260572.00
9/12	227	Lawence Jackel	T8	VIIIa		4950.00	255622.00
9/12	228	Teuvo Kohonen	T9	VIIIa		5312.50	250309.50
9/12	229	Bart Kosko	T10	VIIIa		4425.00	245884.50
9/12	230	Demetri Psaltis	T11	VIIIa		4000.00	241884.50
9/12	231	Peter Wallace	T12	VIIIa		3637.50	238247.00
9/12	232	Bernard Widrow	T13	VIIIa		4512.50	233734.50
9/12	233	Ronald Williams	T14	VIIIa		4262.50	229472.00
9/25	292	C&P Telephone		III		88.62	229383.38
10/5	244	SOS PRINTING	53	IVb		9856.08	219527.30

1991 IEEE Neural Networks Council Document
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IJCNN 1989, Washington Account - Cash Dispersement

Date	Check #	To	Invoice #	Operating Budget	Deposit	Withdraw	Balance
10/5	293	Hecht-Nielsen		Xa		426.64	219100.66
12/19-1/19		Interest			29.80		219130.46
1/19-2/16		Interest			72.50		219202.96
2/16-3/16		Interest			94.60		219297.56
		Tax				18.92	219278.64
3/16-4/20		Interest			118.37		219397.01
		Tax				23.67	219373.34
5/18-6/15		Interest			97.84		219471.18
		Tax				19.57	219451.61
6/15-7/20		Interest			683.27		220134.88
		Tax				136.65	219998.23
		Transaction fees				19.00	219979.23
7/20-8/17		Interest			1492.44		221471.67
		Tax				298.49	221173.18
		Transaction fees				10.00	221163.18
8/17-9/21		Interest			1677.97		222841.15
		Tax				335.59	222505.56
4/20-5/18		Interest			163.40		222668.96
		Tax				32.68	222636.28
		Transaction fees				13.74	222622.54
		Debit Memo				20.00	222602.54
10/6	235	David Sanches	R19	Refund		644.00	221958.54
10/6	236	David Durfee	R22	Refund		20.00	221938.54
10/6	237	Piero Cosi	R30	Refund		152.00	221786.54
10/6	238	Frank Mancini	R31	Refund		412.00	221374.54
10/6	239	Hartmut Wendt	R24	Refund		500.00	220874.54
10/6	240	Edward Rosenfeld	EC15	XII		317.48	220557.06
10/6	294	Jean McCausland	54			179.56	220377.50
10/10	295	Sheraton Washington Hotel	47	Hotel		16051.28	204326.22
10/6	296	Jean McCausland		III		1200.00	203126.22
10/10	297	IEEE, NNC				78117.57	125008.65
10/10	298	Intrntl Neural Network Society				97000.00	28008.65
10/10	299	Void					28008.65

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IJCNN 1989, Washington Operating Budget

Categories	Approved	Actual	Delta	Comments
	\$	\$	Cost	
I. Promotion				
a. Call for Papers				
1. Mailing List	229.50	14.00	215.50	Invoice #3
2. Printing	1,880.70	1357.82	522.88	Invoice #3,#25
3. Postage and mail house	2,950.00	1050.00	1900.00	Invoice #3
b. First Announcement				
1. Mailing Lists	5,000.00	5016.91	-16.91	Invoice #4
2. Printing	11,000.00	7079.00	3921.00	Invoice #4, #2, #10
3. Postage	10,200.00	19124.11	-8924.11	Invoice #1a#4,#2,#10,#15ob
4. Mail Services	1,500.00	1387.58	112.42	Invoice #4, #2, #10
c. Second Announcement				
1. Mailing Lists	800.00	450.50	349.50	Invoice #11
2. Printing	6,000.00	1860.46	4139.54	Invoice #6
3. Postage	4,500.00	3083.36	1416.64	Invoice #20
4. Mail Services	900.00	160.00	740.00	Invoice #20
d. Ads (Under the control of the promotion chairman)	8,000.00	2541.25	5458.75	Invoice #19,#21
II. Administration: Communication and Correspondance				
a. Printing	1,200.00	659.65	540.35	Invoice #9,#20,#18,#27
1. Letterhead and Envelopes				
2. Confirmations (Letter and Information)				
b. Postage				
1. Confirmations and mailing brochures	1,300.00		1300.00	

1991 IEEE Neural Networks Council Document
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IJCNN 1989, Washington Operating Budget

Categories	Approved	Actual	Delta Cost	Comments
	\$	\$		
c. Telephone				
1. Meeting (Control: Nomi)	500.00		500.00	
2. Committee (Control: Conference Chairman)	3,000.00		3000.00	
d. Managment Contract	4,000.00	4000.00	0.00	Invoice #29
e. Audit	5,000.00		5000.00	
f. Finance Management	3,000.00	2932.72	67.28	Invoice #54
III. Proceeding Preparation				
a. Proceeding Papers				
1. Authors (forms)	3,000.00	904.03	2095.97	Invoice #3, #1, #36
2. Mailing author kits	2,700.00	4031.53	-1331.53	Invoice #5, #3, #15, #25
3. Confirmation to authors	250.00		250.00	
4. Mailing papers to reviewers (Fed-Ex)	1,000.00	1215.40	-215.40	
5. Telephone (reviewers/authors)	300.00	300.00	0.00	Invoice #31
6. Temp - process papers (labor)	800.00	980.00	-180.00	Invoice #16
IV. Proceedings Printing (Control: Publication Committee)				
a. Program Preparation				
1. Preparation by Nomi	500.00		500.00	
2. Typeset and Printing	2,500.00	1677.91	822.09	Invoice #35
b. Printing of Proceedings	56,000.00	57231.08	-1231.08	#20A, 40, 39,53

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IJCNN 1989, Washington Operating Budget

Categories	Approved	Actual	Delta Cost	Comments
	\$	\$		
V. Meeting Expenses				
a. Registration Packet (w/o proceedings)				
1. Registration supplies (name badges, ribbons, packet/envelope, pens)	2,000.00	2000.00	0.00	Invoice #26
2. Tote bags	12,000.00	9023.06	2976.94	#32,43
3. Tickets for social events, proceedings, announcements/changes	2,000.00	2000.00	0.00	Invoice #26
4. Final Program	13,000.00	8853.81	4146.19	Invoice # 37, 35
b. AV equipment and technicians	11,000.00	9631.79	1368.21	Invoice #47a
c. Staff				
1. Last month temps	6,600.00	6600.00	0.00	Invoice #30
2. Registration on site	12,100.00	18956.00	-6856.00	Invoice #33, #47, #46
d. Signs	2,000.00	2000.00	0.00	Invoice #34
e. Freight to Washington	2,400.00	3687.00	-1287.00	Invoice #26,44
f. Rental Equipment (Typewriter)	500.00		500.00	
g. Security	1,500.00		1500.00	
h. Local Arrangement	2,000.00		2000.00	
i. Boards (Rental)	2,250.00	1040.00	1210.00	Invoice #48
j. Supplies (pins, markers, etc)	500.00	500.00	0.00	Invoice #26
k. Printing (Schedule, locations, numbers)	200.00	200.00	0.00	Invoice #26

1991 IEEE Neural Networks Council Document
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IJCNN 1989, Washington Operating Budget

Categories	Approved	Actual	Delta Cost	Comments
	\$	\$		
VI. Hospitality				
a. Coffee Breaks	36,000.00	30937.12	5062.88	0221705, 0222705, 0223907, 0224104,0224404, 0225005
b. Welcome Reception	30,000.00	11108.14	18891.86	Invoice 49
c. Wednesday Party	80,000.00	76727.72	3272.28	0224907, 0224907
VII. Miscellaneous				
a. Petty Cash	1,200.00		1200.00	
b. Contingency Fund	3,600.00	2000.00	1600.00	Advance
VIII. Tutorial Management				
a. Presenters	84,000.00	66500.00	17500.00	Invoice 52a
b. Printing books	12,000.00	10643.80	1356.20	Invoice #35, 38,42
c. Video Taping	10,000.00	2500.00	7500.00	Invoice #55
d. Refreshments	10,000.00	2499.84	7500.16	Invoice #47, 220905
e. AV	2,500.00	3216.04	-716.04	Invoice 48a,49a,50a
f. Tickets/typesetting	2,000.00		2000.00	
g. Tutorials Committee	2,000.00	1350.00	650.00	Invoice #14, 47
h. Other				
Signs	1,000.00		1000.00	
Supplies	1,000.00		1000.00	
Miscellaneous	500.00		500.00	

1991 IEEE Neural Networks Council Document
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JCNN 1989, Washington Operating Budget

Categories	Approved	Actual	Delta	Comments
	\$	\$	Cost	
IX. Exhibits Management				
a. Printing Exhibit Guide	3,500.00	2177.31	1322.69	Invoice #8, 41
b. Decorator	3,500.00	6864.75	-3364.75	Invoice #48
c. Hotel Charge	6,000.00		6000.00	Invoice #47, 48
d. Security	4,000.00		4000.00	
e. Printing announcements and marketing	1,000.00		1000.00	
X. Committee Expenses				
a. Intermediate	1,000.00	826.64	173.36	#12, 13,#25A, 24A
b. At Conference			0.00	Invoice #47
1. Amari	3,600.00		3600.00	
2. Eckmiller	2,800.00		2800.00	
3. Stubberud	3,600.00	990.00	2610.00	
4. Snyder	4,600.00	2051.19	2548.81	24a,25a
5. Hecht-Nielsen	1,500.00	150.00	1350.00	
6. Glaser	1,150.00		1150.00	
7. Hopfield	1,150.00		1150.00	
8. Sejnowski	1,150.00		1150.00	
9. Werbos	200.00		200.00	
10. DeClaris	1,800.00	2000.88	-200.88	Invoice #25b
XI. Insurance and Bonding	300.00		300.00	
XII. Emergency Chair Reimbursement Fund	35,000.00	16571.94	18428.06	
Hotel		16051.28	-16051.28	Due to insufficient documentation, I could not assign the rest of the hotel bill to the budget
Total	559,710.20	436,715.62	122,994.58	

IJCNN 89 FINANCE COMMITTEE

Summary of Financial Transactions
(Estimated on the Basis of Bank Statements)
October 9, 1989

	<u>CREDITS</u>	<u>DEBITS</u>
"Seed" Deposits	41,000	
Registration & Fees Deposits		
Checks	612,466	
Cash	32,697	
Interest Earned	7,457	
"Seed" Refunded		41,000
Registration & Fees Refund		
Bank debited		6,072
Conference Expenses for:		
On-Site Meeting Management Advance		10,000
Hotel (paid in full)		137,577
Checks for Invoices & Refunds		280,373
Pending (Estimated)		16,500
Surplus (Estimated)		
Check to NCC		97,000
Check to INNS		97,000
Contingency (for future distribution)		8,098
Totals	<u>693,620</u>	<u>693,620</u>

Pat

I thought this
may be of
interest to you
also.

ND

CONFIDENTIAL
FOR COMMITTEE USE ONLY

Nicholas DeClaris
Nicholas DeClaris, Chairman

GENERAL DYNAMICS
Electronics Division

Page 3 of 3

Date: 2-2-91
To: Nick DeClaris (cont'd)
From: P.K. Simpson

Ⓣ If you need any information, please do not hesitate to contact me at the address on the attached card.

Sincerely,



Patrick K. Simpson

Attachments: copy of letter dated 7/10/90
copy of FAX dated 1/10/91

CC: Irving Engelson, IEEE HQ
→ Robert J. Marks, NNC President

P.S. I apologize for handwriting this note, but I am not able to get to a word processor & wanted to reply as soon as possible. -PKS

that remains unresolved on my agenda
is the distribution of the aforementioned
WNN 89 audit.

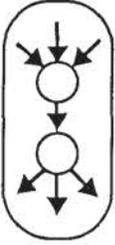
⑤ Your FAX message of 1-23-91 stated that
"Your FAX did not arrive in good shape"
I have sent another copy of this letter
to you in this transmittal. Please note
that this is the fourth time that you
have been sent this to you

1. Returned reg. mail to your home
2. Mail to Univ. of MD - College Park
3. Faxed to you as aforementioned

I sincerely hope you get this copy
"in good shape."

⑥ It was unclear what you meant
concerning "wrong statements" and "good
faith". If you could elaborate your
specific needs to me, relative to
your needs pertaining to my position
as NNC Treasurer, I will process
them faithfully & forthright.

IEEE NEURAL NETWORKS COUNCIL



Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics Electronics Division
17436 Ashburton Road
San Diego, CA 92128
619/573-2417

Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759

July 10, 1990

Dear Dr. DeClaris:

As the audit of the 1989 International Joint Conference on Neural Networks (IJCNN 89) draws to a close, we need to collect all the remaining funds for eventual distribution. Because all of the remaining expenses for IJCNN 89 are being paid through the Neural Networks Council (NNC)—specifically, the audit—there should be no need for any containment of funds by the IJCNN 89 finance committee. To the best of my knowledge, at the present time all the funds have been collected with the exception of the \$2000.00 check that you presented at the recent NNC AdCom meeting held June 19, 1990. Although the check was made out to "International Neural Networks Conference" and it did not have IEEE as the payee, the IEEE Technical Activities Finance Administrator has informed me that it is a valid check and suitable for deposit. I apologize for misinforming you to the contrary.

To expedite the closure of IJCNN 89, please forward the aforementioned check to the IEEE at the following address:

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

If you have any questions or comments, please do not hesitate to contact me at the address listed above. Your immediate attention to these matters is greatly appreciated.

Sincerely,

- copy - 1/10/91
original sent to above address, returned & resent to
University of MD, College Park Campus, Dept of Electrical Engineering
Patrick K. Simpson

CC: Marilyn Prusan, Irv Engleson (IEEE TAB), Robert J. Marks II (IEEE NNC)

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

TO (COMPANY NAME, ADDRESS AND "ATTENTION")

DATE 1-10-91

SEND VIA NO

Nick DeClawis
Phone 301/328-2060

MAILGRAM
TELEX
TWX
TELEGRAM
FAX 301/328-2060

FROM Patrick K. Simpson

NAME & TITLE: Program Manager/Principal Investigator
Neural Networks

GENERAL DYNAMICS ELECTRONICS DIVISION
5011 Kearny Villa Road - Bldg. 70
San Diego CA 92123-1447

FAX: 619-573-2266

DEPT. NO. 607
(REQUIRED BEFORE MESSAGE TRANSMISSION)
MAIL ZONE 7202K
TELEPHONE 619-573-2417

Return FAX Number: 619/573-2266

(UNATTENDED)

MACHINES WILL NOT TRANSMIT PENCIL - PLEASE USE BLUE OR BLACK INK TYPE ALL CAPS

Nick:

- ① I received your letter of 12/28/90, thank you for the response. Attached is a copy of the letter that was sent to you at the address listed in the NNC Ad Com minutes of June 1990's meeting in San Diego. You did confirm that this was your preferred address at that meeting.
- ② Attached is a copy of the letter I attempted to send to you in July of last year. As you mentioned, it was not received by you at your home, but I did later send it to the College Park Campus. It is puzzling that you did not receive this.
- ③ I have made note of your new preferred address. I look forward to your response to the attached item.

CS1 1/39

Sincerely,

Patrick K. Simpson
NNC Treasurer

AL DYNAMICS
Electronics Division

WRITTEN WIRE MESSAGE

WRITTEN WIRE MESSAGE
PLUS ATTACHED SHEETS +
TOTAL NO. OF SHEETS

1
1
2

TO (COMPANY NAME, ADDRESS AND "ATTENTION")

DATE 1-10-91

SEND VIA NO

MAILGRAM _____
TELEX _____
TWX _____
TELEGRAM _____
FAX 301/328-8013

Nick DeClawis

Phone 301/328-2060

FROM Patrick K. Simpson

NAME & TITLE: Program Manager/Principal Investigator
Neural Networks

GENERAL DYNAMICS ELECTRONICS DIVISION
5011 Kearny Villa Road - Bldg. 70
San Diego CA 92123-1447

FAX: 619-573-2266

DEPT. NO. 607
(REQUIRED BEFORE MESSAGE TRANSMISSION)

MAIL ZONE 7202K

TELEPHONE 619-573-2417

Return FAX Number: 619/573-2266

(UNATTENDED)

MACHINES WILL NOT TRANSMIT PENCIL - PLEASE USE BLUE OR BLACK INK TYPE ALL CAPS

Nick:

- ① I received your letter of 12/28/90, thank you for the response. Attached is a copy of the letter that was sent to you at the address listed in the NNC Ad Com minutes of June 1990's meeting in San Diego. You did confirm that this was your preferred address at that meeting.
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- ③ I have made note of your new preferred address. I look forward to your response to the attached items.

051 1239

Sincerely,



Patrick K. Simpson

NNC Treasurer

Coopers
& Lybrand

certified public accountants

REPORT OF INDEPENDENT ACCOUNTANTS

To the Committee of
The Institute of Electrical and Electronics Engineers, Inc.
Third Annual International Joint Conference on Neural Networks
San Diego, California

We have audited the accompanying statements of revenue collected and expenses paid and distribution of net proceeds, on a cash basis, for the Third Annual International Joint Conference on Neural Networks held on June 18 through 22, 1989. These financial statements are the responsibility of the Conference's Committee. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

As described in Note 1, the accompanying statements of revenue collected and expenses paid and distribution of net proceeds have been prepared on the basis of cash receipts and disbursements, which is a comprehensive basis of accounting other than generally accepted accounting principles.

In our opinion, the financial statements referred to above present fairly, in all material respects, the revenue collected and expenses paid and distribution of net proceeds of the Third Annual International Joint Conference on Neural Networks covering the period of June 18 through 22, 1989, on the basis of accounting described in Note 1.

Coopers & Lybrand

San Diego, California
July 26, 1990

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

REPORT ON AUDIT OF STATEMENT OF REVENUE COLLECTED AND
EXPENSES PAID AND DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks
Held on June 18 Through 22, 1989

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

STATEMENT OF REVENUE COLLECTED AND EXPENSES PAID
For the Third Annual International Joint
Conference on Neural Networks
Held on June 18 Through 22, 1989

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Revenue collected:			
Registration	\$368,931	\$ -	\$368,931
Tutorials	-	203,225	203,225
Exhibits	43,690	-	43,690
Proceedings	9,845	-	9,845
Other revenue, including interest of \$10,563	<u>13,223</u>	<u>5,281</u>	<u>18,504</u>
Total revenue collected	435,689	208,506	644,195
Expenses paid:			
Marketing	16,054	16,053	32,107
Administration	8,807	-	8,807
Exhibits	9,439	-	9,439
Proceedings	79,243	-	79,243
Hospitality	138,364	-	138,364
Committee expense	20,044	3,582	23,626
Local arrangements	33,067	8,267	41,334
Tutorials	<u>-</u>	<u>84,417</u>	<u>84,417</u>
Total expenses paid	<u>305,018</u>	<u>112,319</u>	<u>417,337</u>
Net proceeds	<u>\$130,671</u>	<u>\$ 96,187</u>	<u>\$226,858</u>

The accompanying notes are an integral part
of the financial statements.

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks
Held on June 18 through 22, 1989

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Net proceeds	<u>\$130,671</u>	<u>\$96,187</u>	<u>\$226,858</u>
Distribution:			
Educational Activities Board	\$ -	\$96,187	\$ 96,187
Technical Activities Board	130,671	-	<u>130,671</u>
			<u>\$226,858</u>

The accompanying notes are an integral part
of the financial statements.

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

NOTES TO STATEMENT OF REVENUE AND EXPENSES
AND DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks

1. Organization and Basis of Presentation:

The San Diego Chapter of the Institute of Electrical and Electronics Engineers, Inc. (the I.E.E.E.) held the Third Annual International Joint Conference on Neural Networks from June 18 through 22, 1989. The statements of revenue collected and expenses paid and distribution of net proceeds for that conference have been prepared on the cash basis of accounting and not on an accrual basis, as would be required by generally accepted accounting principles. In order for the statements to be in accordance with generally accepted accounting principles, revenue would be recognized when earned, rather than when received, and expenses would be recognized when incurred, rather than when paid (see also Note 3).

2. Income Tax:

No income tax has been provided on the net proceeds since this was an activity of the I.E.E.E. and the outcome will be incorporated into their operating results at year-end.

3. Contingencies (Unaudited):

Below is a summary of the unaudited payable outstanding at June 22, 1989. Had this liability been reflected as an expense in the accompanying statement of revenue and expenses, the net proceeds from the conference and tutorials would have been as follows:

	<u>Conference</u>	<u>Tutorial</u>
Net proceeds	\$130,671	\$96,187
Expenses:		
Audit fees	<u>9,200</u>	<u>2,300</u>
Total	<u>\$121,471</u>	<u>\$93,887</u>

Additionally, the conference had an advance of \$41,000 from the I.E.E.E. San Diego Section, which was refundable to them. This amount has not been included as revenue or expense in the accompanying financial statements.

I.E.E.E., as a not-for-profit organization, is not subject to income taxes on interest revenue. A notice of the tax exempt status was not filed with one of the financial institutions; consequently, they withheld \$1,350 of income taxes. This amount is due to I.E.E.E.

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Department of Biomedical Engineering • College of Engineering
P.O. Box 909 • Piscataway • New Jersey 08855-0909 • 908/932-3155 • FAX: 908/932-3753

January 30, 1991

Professor Robert Marks II, Chairman
IEEE Neural Networks Committee
University of Washington
Dept. of Electrical Engineering
Seattle, WA

Dear Professor Marks:

As per your request, here are the minutes of the
Executive Session on June 19, 1990, with attachments.

Best regards,

L. Itou

Evangelia Micheli-Tzanakou
Professor and Chair
Biomedical Engineering

EXECUTIVE SESSION

A motion by P. Simpson "I move that we recommend that IEEE Headquarters fully pursue and refer to the Technical Activities Board any alleged irregularities in any IEEE Neural Networks Council sponsored conferences" instigated the meeting to continue under an executive session (see p.6 for the actual executive session).

NICK DECLARIS - This motion is directed to me personally. OK. I was the finance Chair for the IJCNN 89. The first IJCNN which is the one held in Washington. The general chair for that meeting was Co Chairs Snyder and Stubar and they developed a budget in which I had no part in making the budget. I sat down and I accepted it and accepted the appointment as Chairman of the Finance Committee and put myself to the order of enforcing that particular budget. The bottom line of that I will not trouble this council at this stage but some other time I will. There were a number of irregularities, things taking place which I attempted to straighten out.

P.SIMPSON - I think this is exactly the thing....

NICK DECLARIS - Would you like me to finish.. among the things that came out, we enforced the budget in a way that we ended up with a profit of nearly little more than \$200,000 at the end - \$200,000 profit came because we did not adhere to the budget. If we had spent what was budgeted there would not have been a profit of \$200,000 and the reason we did not spend it was because we policed it very very heavily. We kept very good records and I had requested at the time, as Chairman of the Finance committee, to appoint an auditing firm of national name that would have both offices in Washington and San Diego because although the

Committee - the meeting was in Washington, the money was spent -- the actual money was handled here in San Diego - the money came and was deposited in a bank in San Diego, the money was spent in Washington - you can all see the nightmare of a situation like this. The bottom line is for whatever reasons, the recommendations I made, and although Bob had agreed that we will have an audited committee, was reversed.

BOB MARKS - I'm sorry...but

NICK DECLARIS - Remember, I had requested a firm in Washington and I proceeded to make the negotiations.

BOB MARKS - I never approved that

NICK DECLARIS - I have a written statement that you agreed on that subject to approval.

BOB MARKS - I believe the word "tentative" was used in that

NICK DECLARIS - YES - but be that as it may the next thing was that an auditing firm was appointed and nothing happened to it in December when we were supposed to have it and we were not - I was not notified-until February that an auditing firm has been assigned to audit those records, the exact date of the letter was Feb. 20 or thereabout.

RUSS EBERHART - Your were notified on January 15 - its in the minutes that Cooper and Lybrand..

NICK DECLARIS - Well, as it turns out it is not Cooper and Lybrand doing it - it is a local firm in Washington - they have delegated it to another firm.

R. EBERHART - The audit will be issued by Coopers and Lybrand...

BOB MARKS - let Nick complete his statement and we can have

further discussion.

NICK DECLARIS - the point is that when I was notified that they had a firm it was at a time when already a number of things had taken place that could not be attended. Since that time, I have notified the local people here - in fact when I got here I came just in order to close these accounts. I had difficulty in doing that and at this stage I am trying to see how I can do this without confrontations otherwise there will be confrontations.

BOB MARKS - For the record, you have been removed from the financial obligations of the conference by an agreement between INNS President, myself, and with the concurrence and knowledge of Irv Engelson and in that letter which you have just received it was stated that the audit would be performed by Coopers & Lybrand.

NICK DECLARIS - But I told you, I was not contacted by Coopers. The letter which I have here is from a different firm.

P. SIMPSON - Graff and Douglass - but they are acting - they are subcontracted from Coopers.

N. DECLARIS - But that presents problems, the firm which I was

P. SIMPSON - The relationship, Nick, is explained in this booklet.

NICK DECLARIS - I did not receive a copy of this book. The only thing I received was by Graff and Douglas, a local firm, not a firm which has a representative in ... and I attempted - I came and I called these people and I was not able to see them. So I have a problem in negotiating--here is the letter for anyone who wants to see it dated March 8, 1990. March 8th!

BOB MARKS - If you would like to enter that into the record, you

are welcome to do so. I recognize Russ Eberhart.

R. EBERHART - There is a lot of history here - I am not going to go through the history I'm going to say the facts. I'm going to read sections of the IEEE Conference Organization Manual and then I'm going to say briefly what was done. Sec. 8 on the finance committee and each finance committee is required to follow these guidelines.

Sec. 8.1.1 - all conference bank accounts must have the identifying IEEE in the first part of the accounts name - a bank account must never be in an individual's name. That was not done on this account. Sec. 8.1.1.2 IEEE policies and procedures requires that all conference bank accounts have alternate signatures designated. Minimum signatures include 1 volunteer alternate from the conference committee, usually the conference chairman. That was not done on this account. The IEEE Controller, or the Controller's designee. That was not done on this account until October or so. The uniform employer identification number that has been assigned by the IRS for use by all IEEE conferences is such and such - this should be used whenever IEEE financially sponsored conferences - this was not done in this case.

It is the responsibility, now this is 8.1.1.4, it is the responsibility of the conference treasurer to report to the IEEE the principal amount, annual accrued interest, account number, and name and address of any financial institution in which any account is open and exists at the end of the year. This information is required by the institute of internal revenue service information and this was not done.

Closing of an account - each conference is required by IRS

regulations to close its account and submit a final financial report which is contained in this manual to IEEE headquarters. It is the responsibility of the Conference financial conference chairman to insure that this procedure is strictly followed in order to protect IEEE non-profit tax status. That was not done in this account.

We received a letter dated Oct 9 1989 from the Conference finance chairman in which he says "I am declaring a surplus of \$194,000 which at the request of Bob Marks I am now distributing equally to the NNC and INS and included in the finance statement was a contingency of \$8,000 so the total here is \$202,000 tentative surplus. Since this letter was rec'd by us which was submitted to the IEEE as the final financial report of the Conference at least in the understanding of Irv Engelson and Mel Olken at headquarters we have received funds on December 4th closing out an account at a San Diego bank for \$6021.66.

There is also another account here in San Diego that has a couple of thousand dollars in it and an account in Baltimore with a balance in excess of \$25,000. On Feb. 13, 1990 the IEEE signed with Coopers and Lybrand a letter authorizing the audit. Pat Scarbaro of Coopers and Lybrand left the company and went to this other company with the agreement that the final audit will be issued by Coopers and Librand because she has audited this conference for the 3rd year. On March 20, 1990, I sent a letter to Dr. DeClaris reading in part "the NNC recognizes the significant conference related work you have already done and will appreciate your full cooperation with the audit (letter attached to these

minutes). As of noon today, Coopers and Lybrand has not received any information to perform the audit from Dr. DeClaris.

Section 8.4.1, is the final responsibility of the treasurer to prepare a final report by completing the summary financial report form in this book and repay all loans. This should be done within 6 months of the conference. This was not done in this case.

The last two I'll read. The financial report and supporting documents detail financial report forms 1 and 2 should be submitted to the conference general chairman for submission to each sponsoring entity and to the IEEE conference services office. This report should be filed within 6 months of the conference date (and this is underlined), it is not necessary that all accounting be completed prior to the filing of this report.

The last thing I'll read is section 8.4.3. In addition more complete detailed accounting to the conferences incoming expense items should be documented on the IEEE Conference detailed financial report (part I income and part II expense) - that was not done for this conference.

Those are the facts, the audit is on the way and I suggest that this council be aware that the reason this motion is made is not just for this conference but that this situation which has taken the emotional energy and time and has in my opinion tarnished the IEEE's reputation with some of our people we are dealing with in this conference, I would urge that we pass this motion.

C.ROBINSON - I am worried about a couple of things, so first of

all I rise to a point of privilege. I would ask that this be considered an executive session and all non voting members be asked to leave.

BOB MARKS - What's the rule on that. I will ask all non voting members to leave. We are now in Executive Session. I should mention that Dr. Louis has been given the written proxy of Toshio Kanaku

(Non Voting members left the room at this point).

EXECUTIVE SESSION BEGINS HERE

C. ROBINSON - I rise to a point or order. I must say I have nothing to do with this debate but I think both the discussion here and Russ your discussion did not address the motion that was made. They were facts that presented a case but in a situation where we may have a potential legal implication, points were raised that there was no right of conflict.

B. MARKS - I think that's the reason we have to do this.. to submit it to IEEE get it out of the agenda of this body.

C. ROBINSON - But the motion does not specifically relate to this particular item, you made a generic motion and specifics were raised.

P. SIMPSON - I could make a friendly amendment and be specific. I am the Treasurer of the Neural Networks Council. It is my job to close out the accounts of this Conference. That is my job. And I need to know where all the funds went to and I was not involved with that Conference, so I can consider myself an independent party. I just want to make sure all these funds are accounted for.

NICK DECLARIS - Well, why didn't you return my calls. I placed calls to you. You never returned my call, I never had a telephone number for you, I left a message in your tape, I left messages with Kosko and you never once contacted me personally. Have you ever once talked to me personally since you became the Treasurer. I have difficulties with Eberhart because he interfered in a way that I do not think is proper. But with you I never had any contact at all. You didn't even contact me to tell me what was happening.

P.SIMPSON - I know its unfortunate. My work schedule, Nick, is Sunday thru Thursday. And you called Thursday...

NICK DECLARIS - But I called a month ago.

BOB MARKS - Would you address the general motion.

P.SIMPSON - I would like a friendly amendment to be specific about this conference the IJCNN 89 I am happy to amend the motion to say instead of saying any Neural Network sponsored Conference. any IJCNN conference this conference.

BOB MARKS - Is there a second to the amendment?

BOB MARKS - Second, C. Robinson, OK I will accept that then as a friendly amendment.

NICK DECLARIS - Mr. Chairman, Eberhart raised points of accusations and I must be given the opportunity to answer every one he made.

BOB MARKS - Right, but I would like to see it taken out of this body.

NICK DECLARIS - But he made it in front of this body and you have to give me the opportunity to refute all the points he made because I disagree with the things he said and I think they are

libel or mistaken and intentionally so. For example, ...

C. ROBINSON - May I raise a point of privilege please, I would ask that Roberts rules be strictly adhered to in that the Chair rule that no one can speak more than twice on any motion before the board.

BOB MARKS - I'll adhere to that. Is your intent from this point on or... OK, I think from this point on, each person is allowed to address the question on the table in 2 items of discussion.

B. NEWCOMB - I don't understand the need for such a motion. Doesn't the IEEE automatically inform you or somebody if there is an irregularity. They have to do something, they are not just going to let it sit.

BOB MARKS - There is a question, and I'm not sure of the answer. Russ, would you respond to that question.

RUSS EBERHART - We were requested by IEEE headquarters, namely Irv Ingelson, to consider this motion.

B. NEWCOMB - So, Irv Engelson asked us to make such a motion, the Council to make such a motion.

R. EBERHART - Not those exact words. What he said was "if there are alledged or perceived problems or irregularities with the conference, we at headquarters must have some kind of a direction from the society or council to pursue, look into or further explore these alledged problems. Therefore, I would like a motion to come out of your Ad Com meeting".

BOB MARKS - Bob, do you want to continue with your statement or are you finished.

B. NEWCOMB - If there is really something wrong the IEEE head-

quarters has to step in and handle it. In fact, I'm worried that those of us here get involved in this kind of a problem.

BOB MARKS - That's why I would like to take it from this body and shoot it upstairs. Let's continue. If I am to adhere strictly to Roberts rules, I have to keep my opinions to myself.

C.ROBINSON - Point of record, I hate to keep doing this to you but I think its substantial that we keep it straight. I would like the record to show that the original motion did not specify any conference, that the gentleman on my right assumed was addressed to his conference and raised the point, and then Russ Eberhardt gave a response.

BOB MARKS - In addition, there was an amendment made and 2nd made to the amendment after that. So officially we are discussing the amendment. May I have a statement of the amendment.

NICK DECLARIS - I just want to make a point of order. I objected to the statements as being untrue. What Eberhart reported was untrue and deliberately so. Because he knows that some of the things he said were not correct. That's all. Statements were made that were untrue about my activities.

E. TZANAKOU - If I can make it straight after all these discussions. OK, the first motion was saying, "I move that we recommend that the IEEE headquarters fully pursue and refer to the technical activities board any alledged irregularities in any IEEE neural networks council sponsored conferences." That was made by Patrick Simpson. Then he made a friendly amendment to refer to the particular conference which was the one that Dr. DeClaris was the financial chair.

BOB MARKS - The motion belongs to the body and therefore if we are strictly adhering to Roberts rules, we are addressing the amendment which was also made by Pat and seconded by Russ.

C.ROBINSON - Call the amendment.

NICK DECLARIS - I would like to be given the opportunity to discuss the amendment.

The amendment is called. The call is undebatable which means that we now vote, what is the vote - yes 2/3 - OK we are now voting on whether we vote on the amendment.

--What's the amendment?

BOB MARKS - Do you have a statement of the amendment?

E.TZANAKOU - It was amended to refer to the particular conference which was in 1989.

B. MARKS - So if 2/3 vote positively then we immediately vote on the amendment. I call the question. All in favor. Could I request the secretary to verify my vote count. All in favor of immediately voting on the amendment - 11. All opposed 0. Abstain 2. We immediately vote on the amendment. May I have a statement of the amendment.

E. TZANAKOU - We refer to the particular conference of the IJCNN of 1989.

BOB MARKS - All in favor. We are now voting on the amendment.

PAT SIMPSON - Here's how I understand it. We are recommending that IEEE headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989..

C. ROBINSON. - No, No, --you have to read the original one.

PAT SIMPSON - OK IEEE Neural Networks Council sponsored

conferences.

BOB MARKS - That was the original motion.

P. STIMPSON - It was then amended to say, "instead of any IEEE Networks Council sponsored conferences" to say, "in the 1989 IEEE/INNS International joint conference."

BOB MARKS - All in favor of the amendment. No discussion. We are voting on the amendment specifically.

BOB MARKS - All in favor, please raise your hand. 10. All opposed 2. The amendment passes. May we have a reading of the original motion as amended, please.

P. SIMPSON - I move that we recommend that the IEEE headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989 IEEE/INNS International Joint Conference on Neural Networks.

BOB MARKS - Is there any discussion on the amendment.

NICK DECLARIS - I would like to address now the positions made.

C. ROBINSON - On the amendment?

BOB MARKS - No, No, this is on the original motion as amended.

NICK DECLARIS - Let me say, there were the following irregularities from my point of view. There was an account here in San Diego opened and operated by N. Feldman of which I knew nothing and over which I had no control. And that account actually had money which was deposited on behalf of that Conference of which I was not advised and of which Eberhart was advised and he did not let me know. There was money that belong to the budget of which I didn't have knowledge but neither did the general chairs.

Second, the attempt that I made to find out about this audit is that this morning I had notified people I would be here in San

Diego and I wanted to meet with them. I called and the auditor, Pat Szarabo, was out of town. Yesterday and today. And I spoke to one of the senior auditors, Bill Graff who told me he was sorry that these people were out of town so although I came here and I had records to discuss with them, I was not able to meet them. I specifically made it a point to attend to. As far as financial records, we had them ready and were ready to issue a report in December, but at that time, in fact I told Bob orally, and I called him, and I told him I was sending all the stuff in IEEE in January. He said to me I apologize to you because I have not written to you about the agreement we have and as a result of that, I send orders to my office not to send the stuff to the IEEE. And so there has been some confusion on the part of the people who work with me as to where the records are.

So I feel that a number of statements made here are definitely untrue and we would like to establish a procedure whereby at least the records I have can be safeguarded. Today I went to the bank in San Diego and I closed the account. We have given instructions to close that account before and it was not done. I had to personally fly in and close that account. And I have with me a check for \$2,000 made not to individuals but made to the International Joint NN Conference 1989, dated June 19, 1990 \$2,000. A copy will be put in the records.

P. SIMPSON - Its worthless. Nick, that is not the name of the conference. You were the Finance Chair of that conference .

B. MARKS - You can respond to that.

NICK DECLARIS - So you can see problems have been created because

of the interference with my office to execute the job we were to do.

B. MARKS - Are you finished.

N. DECLARIS - Yes.

R. EBERHART - I would like to request the chair to express his opinion.

B. MARKS - I think by Roberts rules I need to relinquish my Chair. Is that correct. So I relinquish my Chair. If it is acceptable to the body, Charles (Robinson) will you be willing to chair?

C. ROBINSON - I think that each of your officers would have to decline. Is it Treasurer and then Secretary?

R. EBERHART - I defer,

B. MARKS - Pat?

E. TZANAKOU - No, I think it is Secretary and then Treasurer.

B. MARKS - Would you take the Chair?

E. TZANAKOU - No, I defer.

B. MARKS - So then its an appointee.

E. TZANAKOU - Yes, its Charles.

For the record, gavel now turned over to Charles Robinson as moderator.

B. MARKS - There are some items I want to place into the record and attach to the minutes. From the beginning I was frustrated and found many obstructions. Let me state facts...Headquarters themselves and the Finance Committee Chair have also expressed the opinion. In particular, I have a letter of disassociation from the Conference Chairs Al Stubberud and Wes Snyder disassociating themselves from the Conference because they cannot

get any sort of records regarding the financial aspects of the Conference. I will give this to the Secretary (Attachment I). Also, there is another document by Marks and Widrow dated 10/17 (Attachment II) in which I informed him there would be an audit to be done by Cooper and Lybrand with the concurrence of Irv Ingelson.

B. NEWCOMB - May I ask a question? What are we doing here. I really worry about many things.

C. ROBINSON - I do recognize that as a question of privilege and a question of order. From a parliamentary standpoint, I think that this documentation has probably gone far beyond the tenets of supporting the motion. Although it was originally raised by Dr. DeClaris, I do not think in strict parliamentary sense that this discussion is directed to the general gist of the motion.

B. MARKS - May I request that these documents be included in the minutes?

C. ROBINSON - And I do that for a couple of things. I think we need to recognize that as the administrative and governing body of the Society we have made some substantial discussions on both sides and the parties involved have not been given the privilege of counsel.

B. NEWCOMB - This is what concerns me, it is not a matter, I feel, for us, maybe we should be informed. I think its a matter for some other body.

C. ROBINSON - Well, if, from what I heard, as long as he states dates and letters. And Dr. Eberhart gave dates and times and citations of various documents. And Dr. Marks has also presented

dates and times, there is no problem. But as soon as someone comes in and says someone failed to do something, then maybe. So if you wish to read into the records any date, any time when you sent a letter and the fact that you didn't receive a response, that's fine. But when you attribute other things to people, I don't think we should do that. And I would welcome the sense of anyone here.

B. MARKS - May I say something. I would like to apologize to Professor DeClaris for any statements considered derogatory and I would also like to state I am in support of the motion. I don't think its the purpose of this body to do that, the IEEE has procedures and skills...

N. DECLARIS - I want to respond. The first time that I officially heard that was true that I received communication from Bob Marks that they getting Cooper and Lybrand to do the audit I have I was not contacted by anybody officially until March 8, 1990. So I want to enter it into the records. On March 8th, I was contacted by Jackow, Graff & Douglas who advised me that Cooper and Lybrand had been retained but they were doing the job. But what is important to remember is that Jackow etc. is an accounting firm in San Diego, not a nationally known firm, like the one I proposed. But more important, is the accountant who was going to do the account was the same one who has done the previous audits in the Conference before and which I had serious questions in behalf of this organization. So I want that entered into the record.

C. ROBINSON - Now this is your second time at talking the motion. Is there any other comments you wish to make.

N. DECLARIS - Yes, my comment is the way I would propose to do

this is I would like that since there has been no communication for me by any of the officers of the council about the so called wrong doings, I would like to ask if possible that a sub committee of this council be created that would work with me so that we can bring a report to this council as to the status of the financial affairs of that meeting.

C.ROBINSON - Are you a voting member?

N. DECLARIS - Yes.

C. ROBINSON - OK make a motion.

B.NEWCOMB - There is a motion on the floor

C.ROBINSON - This could be an amendment

N. DECLARIS- Can I make an amendment

B.NEWCOMB - What if he is opposed to the present motion.

B. MARKS- I have no problem with this suggestion

C. ROBINSON- I will rule on this. Here's what happens in Roberts Rules. If the motion that is on the table passes, then I would call your motion out of order because it was already debated and discussed. Whereas if it comes in the form of an amendment, it could die for lack of a second or it could be an immediate call. The question is debatable.

N. DECLARIS - May I continue then in that case

--May we read the motion

E. TZANAKOU - "I move that we recommend that IEEE Headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989 IEEE/INNS joint conference on neural networks."

C. ROBINSON - Rather than the IEEE, the motion could say a sub

committee of this body be appointed.

N. DECLARIS - I would then like to ask for "a sub committee of this body be created that would work with me to receive a final report of the financial accounts for IJCNN 89 because there are accounts and funds that I don't have knowledge of to this day. So the committee could work with me to get the accounts and the finances of that committee clear. This should take place in the next 30 days."

C. ROBINSON- However, I need a second or it dies.

E. TZANAKOU - Can we read it again. "A subcommittee of this body is formed and works with Dr. DeClariss to complete the financial statement regarding the IJCNN 89 finances within 30 days."

C. ROBINSON - Do I hear a second. Again, I will ask, do I hear a second. SECOND. This amendment is open to discussion. Everybody will have 2 shots at discussing it. Marks and Russ, and I don't know your names but if you put your hand up I will note your position.

B. MARKS - Two comments, I don't think this second study is necessary, we have all the financial records from the banks, from Cooper and Lybrand who has given an oral report. I believe this amendment which has been discussed and second, we should get this situation out of this body....

R. EBERHART - I am against the amendment. It is the position of myself and IEEE headquartersa lot of conversations....that Dr. DeClariss was aware of all these accounts. In fact we were the ones who were not aware of the existance or location..The one referred to in San Diego is a deposit only account, you can put money in, but not take it out, and months and months went by and

I think we should get it out of this body.

P.SIMPSON - I would just like to speak on behalf of...

C.ROBINSON - Are you for or against..

P.SIMPSON - Against the amendment. The original amendment as stated in no way condemns anybody, it just says if anything bad happened, and we have enough information for the audit now, is for Professor DeClaris, if he choses, to provide the information to this 3rd party and they will complete the audit and based on the outcome go forward. In no way are we saying this is what's going to happen. It just gives us a tool.

C. ROBINSON- Is anyone speaking for the amendment.

N. DECLARIS - Let me say, it is clear here that a number of people have kept me in the dark. I did not know and nobody contacted me about this type of information. We have detailed records which I have here; budget spread sheets which show exactly what we have, but no one contacted me about this. He is the Treasurer, and Bob Marks has not spoken to me since January about this issue. In January when we met he was told he would contact you about who will do the audit and you will receive a letter. So, I speak for this motion because I don't want a confrontation. I will have to turn this into a legal (matter.)

P.SIMPSON - In response, I have intentionally not returned any phone calls and my intention as Neural Networks Treasurer was to allow the audit to happen without me intervening and leave it as "third party" as possible. I think in all fairness that is the best way to handle this.

E. MARKS - The reason you weren't contacted is because the final

audit was due in September as IEEE policy requires -- its 120 days. Wait-its been 6 months, and not having received the final audit I requested the IEEE send a letter to Nick and I would handle the final requirements. Thats my response, I think you will find the minutes very clearly stated that the audit will be done by Cooper and Lybrand. Also, I would like to submit for attachment to the minutes, with the Chairman's permission, the latest letter from Russ Eberhart requesting again that you please comply with the audit (Attachment III).

B. NEWCOMB - I don't understand why the audit itself doesn't take care of all this. There is an audit going on as I understand it. Why do we even need any motions? The audit should take care of it. The IEEE headquarters will come back and tell us if something is wrong. Keep us out of the loop. We shouldn't have anything...

C. ROBINSON - Point of Clarification. I would like the President, Why is this audit(or the Treasurer)?

P. SIMPSON - The reason is the lack of participation (March was 3 months ago) and that raises red flags.

B. NEWCOMB - We can be through legal things that take years. The audit will take care of all of that. As individuals, we shouldn't be involved in this.

P. SIMPSON - The point I am making is that the auditors couldn't do the audit because of a lack of communication.

B. NEWCOMB - Well, we can't make anybody do anything if IEEE or the auditors can't. If this is to force someone to do something we are in no position to do that. IEEE headquarters maybe, the auditors or the courts. But not us, why try to make us lawyers?

C. ROBINSON - If I can reflect back, and have the Secretary look

at it, the statement was made that the IEEE wanted a strong statement from this council to continue with the audit.

B. NEWCOMB - I feel they have full rights to do it on their own. They don't need us to do it.

C. ROBINSON - (To R. Eberhart) Clarify that.

R. EBERHART - Well in conversations I had with Mel Olken and Irv Engelson it was stated that in order to pursue this they require the Council involved direct them to do it. They don't just do it with a phone call. They must have a recommendation from the society or council to pursue such a matter.

N. DECLARIS - I was also in contact with headquarters. In November, I was advised that there were money belonging to the conference from the sales of the Proceedings. That money never came to me. I have not received the funds that came from the records of the sales of the Proceedings.

C. ROBINSON - Alright now, this is going to be your last time to talk.

B. NEWCOMB - It seems to me that it is a legal matter at this point and legal things don't need assumptions. But I don't want to get involved, and I don't want to vote yea or nay on any such motion because it puts me in the courts and I don't want to be in the courts.

Call the question.

C. ROBINSON - That's not debatable. We are voting on whether to vote on the motion. It takes a 2/3 vote. [passed] We now are voting on the amendment by DeClaris. Will the secretary please read the amendment.

E. TZANAKOU - Dr. DeClaris suggested that "a sub committee of this body is formed and work with him to complete the financial statement for the 1989 conference within 30 days."

B. MARKS - May I request a secret ballot?

C. ROBINSON - Point of privilege

B. MARKS - Point of Order. Appoint 2 tellers. [who were the tellers?] Dr. Lau and the gentleman next to him. (Dr. R. Nutter)

C. ROBINSON - I will ask...the gentlemen next to you to count the ballots. Use the Mariott stationery please. I am assuming that I do not vote. Everyone should use the white Mariott paper. (Moderator counts who can vote, total 18.) Mark your ballots. If you vote proxy mark 2 ballots. This is for the amendment. Please vote yes or no or abstain.

B. MARKS - If you vote NO, we return to the original motion and its amendment.

N. DECLARIS - If you vote yes, you are voting for the amendment, to collect information needed to do the proper report.

C. ROBINSON - 18 ballots need to be cast. If I do not count 18 we will revote. OK, Please count. We have 12 voted no, 2 yes and 4 abstain. The amendment is defeated.

E. TZANAKOU - How many abstentions? (reply 4)

C. ROBINSON - Is there anyone who has not spoken towards or against the original amendment and would like to do so?

D. BROWN - Yes, I agree with Bob (Newcomb) and _____, but I still don't see why we had to have this separate motion, it seems to me that if the audit is ongoing, which I understand it is, then won't we get the results from the audit, and if there is a problem with cooperation I'm not sure that our discussing this

motion is going to enhance the cooperation of the parties involved. I think its important to do exactly what you said - to move it from this council - there is nothing to do at this point but wait for the outcome of the audit. I still think your (unspecified reference) question is unanswered. Maybe if the IEEE wants us to do something it should be more than a phone conversation. Maybe they should write us a letter and say "this is what we want you as a council to do."

C.ROBINSON - I think I could answer that. The IEEE has tremendous resources that it can bring to bear and it has to be specifically requested. And I think what I gather from the sense of this is that they would be willing to bring those resources to bear on this matter in addition to or in conjunction with the audit. But they need the direction of this council to do so.

D.BROWN - So they are going to bring something besides the Coopers and Lybrand audit. What are these resources besides the auditors?

H.RAUCH - I concur with Bob's sentiment for a entirely different reason. As worded it is somewhat hypothetical. Suppose something really happened here, but we shouldn't be asked to presume about something that we aren't able. We have entered into the record now a certain set of facts, but what we haven't seen here is the conclusion of what I hope is a confident assessment of the situation. It is enough hypothetical to make me worry about it.

C.ROBINSON - What are the implications if this motion did not go forward? Mr. President.

B.MARKS - First of all if the audit report did come back with

sensitive matters then(can't hear him at all). If indeed there are charges associated with the audit, then there are lots of consequences.

--Anyone else...

B. DICKINSON -I have a question, is the motion as stated asking the IEEE, then, to do as you said. I thought the motion as stated was asking the IEEE to report back to us so it would come back to us.

C. ROBINSON - Please read the motion

E. TZANAKOU - The motion reads, "I move that we recommend that IEEE headquarters fully pursue and refer to the technical activities board (not to us) any alleged irregularities on the 1989 IEEE/INNS international joint conference on neural networks."

DR. LAU - I have an observation and also a comment. I sense that the strategy of this council is to look into the matter itself and that the purpose of this motion is to bring the matter to the attention of someone higher than this body. Essentially because of the problems involved, the strategies of the councils... If the consensus is that problems are involved, then the Council can investigate the outcome. Since the financial chair is involved, then an impartial person (also given the time lapse involved) then a higher body should be involved.

Unknown Speaker - Can I speak again? [NO] Then, this is one reason I object to the way this is being done.

C. ROBINSON - One of the reasons we are doing it this way is because it has developed into a position that is not the way to run an Ad Com meeting. I am assuming this role because I know a fair amount about parliamentary procedures but if it were me I

would try to come to a better set of words. I would suggest a 5 minute recess and get together to choose two better words than "alleged irregularities." We will return at 11:45 it is now 11:39 - Is this the last bit of business.

--Surely you jest!

B.MARKS - Yes it it.

C. ROBINSON - A point of privilege - some people asked for a secret ballot. Some people will count the votes.

C.ROBINSON - The Chair rules - please remember a yes vote is in favor of the motion, a no vote is against the motion, abstains should be noted.

_____ - Check the number of people voting

_____ - Count - 17 total

E.TZANAKOU - Proxies, this one gets 2 votes.

C.ROBINSON - The Chair will rule that regardless of the outcome of this vote, this matter was discussed. No other motions relevant to this matter can be made at this particular meeting because all perturbations, combinations and other sets of this have been considered. I will graciously yield the floor back to the original keeper of the keys.

GAVEL TURNED BACK TO R. MARKS

B.MARKS - I will request that what has happened here be kept in confidence. I think it is appropriate.

R.ROBINSON - I would like to make a quick motion that these tapes be stenographed. If this requires a fee.....

E. TZANAKOU - We have that...

B. MARKS - Is there a 2nd to the motion?

C. ROBINSON - She (Tzanakou) could just do it as a matter of course.

N. DECLARIS - I would like to make a statement. I would like to go on the record to say that if any member of this council would be interested, they would be welcome to see me in person or receive a copy of the financial information that I have in this packet. Moreover, I have no problem if this is discussed.

P. SIMPSON - I'm sorry, you said that I could get a copy of the finance records for the conference.

N. DECLARIS No, I said you could get a financial statement if you ask me.

P. SIMPSON - I would like to request a copy of your financial statement. I should also like to re-request that you provide as much information as possible to the audit firm.

N. DECLARIS - But if I go to the auditors, and I am not received by the auditors....

----- - Hold it. Point of Order. I think this is continuing on.

C. ROBINSON - OK, lets go on.

_____ - Results of the vote. 17 yes and 1 no.

C. ROBINSON - Clarification. (To B. Marks) You are asking us to keep this in confidence.

R. MARKS - Yes, that would be my request. Even though Dr. DeClariss mentioned it is not important to him.

C. ROBINSON - But it is an executive session.

B. MARKS - Yes, it is an executive session. May I assume we are now out of executive session.

C. ROBINSON - You just have to declare it.

R. MARKS - We are now out of executive session.

E. TZANAKOU - One clarification please. You (B. MARKS) requested that this matter be kept in confidence, but that was not important to Dr. DeClaris which means you don't care actually.

C. ROBINSON - I still feel that this is a sensitive matter which we should keep confidential.

R. EBERHART - All Executive Committee's are confidential.

N. DECLARIS - Any person in this committee who would like to contact me, I will give them any details they want including seeing the records but I am not departing from the records until my legal council says so. Is that clear?

E. TZANAKOU - Pat requested that he have a copy of the financial statements.

P. SIMPSON - Any financial information that you have Nick, I can request it but you don't have to give it to me.

N. DECLARIS - If you will call me tomorrow...

R. MARKS - Point of order- Let's move on. We have some items of new business.



**IJCNN 89
INTERNATIONAL
JOINT CONFERENCE
ON NEURAL NETWORKS**

3770 Tansy Street
San Diego, CA 92121
TEL. (619) 453-6322 FAX: (619) 453-7930

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Attachment I

*Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society*

June 22, 1989

**Dr. Robert Marks, Chairman
IEEE Neural Networks Committee
Washington Sheraton Hotel
Washington, D. C.**

Dear Dr. Marks,

We are writing to inform you of the status of the 1989 IJCNN. We have been informed that the official organizational structure is partitioned into the financial and non-financial elements. The non-financial elements consist of the generation of a budget and the logistical functioning of the conference. Since these non-financial elements were completed as of June 22, 1989, and since we have no responsibility whatsoever for the financial aspects (in particular, the closing of the books and the final audit), we have discharged our obligation to the conference.

We thank you for the opportunity to have been of service to the neural network community.

Very truly yours,

Al Stubberud

Wes Snyder

cc: Russ Eberhart
Troy Nagle

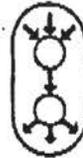
SHERATON WASHINGTON, WASHINGTON D.C.

June 18-22, 1989

Robert J. Marks II Library Archive



NEURAL NETWORKS



Robert J. Marks II, Chairman
IEEE Neural Networks Committee
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990: FAX (206) 543-3842
marks@blake.acs.washington.edu

10-19-98

Dr. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759
FAX:(301) 328-8013

Dear Nick:

The checks you recently mailed to me have been forwarded to the INNS and the NNC - as appropriate. I have also adhered to your request to forward to Jean McClausland the check for her fee.

The officers of the NNC and Dr. Bernard Widrow, President of the INNS, have agreed on a procedure for the auditing of the 1989 IJCNN. Details of this procedure are in the documents enclosed.

Thank you for your call today updating me on the progress of your committee's audit of the conference. The additional delay in the submission of your report is unfortunate.

I request that any suggestions you have for improving financial procedures of future conferences be submitted to Bob Newcomb, Chair of the *IJCNN Oversight Committee* (IOC), for possible consideration by the IOC. Any improprieties concerning the conference of which you are aware should, of course, be documented in your report and communicated to *Coopers & Lybrand* during their audit of the conference.

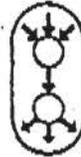
Sincerely,

A handwritten signature in cursive script that reads "Robert J. Marks II".

Robert J. Marks II, Chair
IEEE Neural Networks Committee

cc: Dr. Irv Engleson, IEEE

There are three pages in this FAX transmission. Originals are being sent by surface mail.



NEURAL NETWORKS

Robert J. Marks II, Chairman
IEEE Neural Networks Committee (NNC)
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990; FAX (206) 543-3842
marks@blake.acs.washington.edu

10-17-89

Prof. Bernard Widrow, President
International Neural Network Society
Department of Electrical Engineering, Stanford University
Stanford, CA 94305

Dear Bernie:

I am delighted to enclose a check for \$97,000 made to the INNS from this summer's IJCNN. As I discussed with you on the phone, the check is not signed by the required two signatures. Prof. DeClaris has offered to sign the check once it reaches the Maryland bank. I have, however, no objection to your requesting that Dr. Irv Engleson at IEEE headquarters be the second signature. For your information, his address is

Dr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3850 (O)
FAX: (201) 562-1571

I also propose the following for handling those issues that remain concerning the conference:

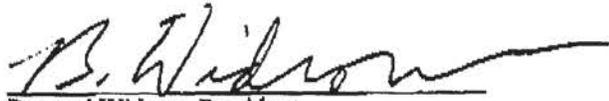
- ◆ Dr. Engleson initiate an audit of the 1989 *International Joint Conference on Neural Networks* using the accounting firm of *Coopers and Lybrand*. The Officers of the NNC have approved this action.
- ◆ The fee for the audit be taken from the surplus of the conference.
- ◆ Maureen Caudill will represent the INNS in the audit to what ever extent appropriate and the NNC will be represented by Russ Eberhart, NNC Treasurer.
- ◆ The INNS and NNC will retain a total of \$60,000 each from the surplus thusfar returned. The remainder of the surplus will be placed in an account for the purpose of paying any outstanding conference expenses. The details of the account location and management are delegated to Maureen Caudill and Russ Eberhart.
- ◆ At the end of the audit by *Coopers and Lybrand*, any remaining balance in the conference account will be divided equally between the NNC and the INNS. The account will be closed no later than December 22, 1989.

Sincerely,

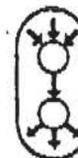

Robert J. Marks II, Chair
IEEE Neural Networks Committee

I have received check #298 for \$97,000 from the *International Joint Neural Network Conference* account at the Equitable Bank in Baltimore, Maryland made to *International Neural Networks Society* and signed by Jean McClausland only. Furthermore, I hereby approve the procedure described above for the handling of the financial matters of the IJCNN.

10/17/89
date


Bernard Widrow, President
International Neural Networks Society

cc: Prof. DeClaris, Irv Engleson, Russ Eberhart, Maureen Caudill



NEURAL NETWORKS

Robert J. Marks II, Chairman
IEEE Neural Networks Committee
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990: FAX (206) 543-3842
Messages (206) 543-2150: Home (206) 776-8995
marks@blake.acs.washington.edu

10-19-89

Dr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3850 (O)

Dear Irv:

I have received three checks from Nick DeClaris from the surplus of the *1989 International Conference on Neural Networks (IJCNN)*:

#	amount	bank	pavable to:
1	\$15,882.43	San Diego	NNC
2	\$78,117.57	Baltimore	NNC
3	\$97,000.00	Baltimore	INNS

where NNC is the *IEEE Neural Networks Committee* and INNS, the *International Neural Networks Society*, is the co-sponsor of the IJCNN. The INNS is to receive 50% of the conference surplus.

Checks #1 and 2 were sent to Mel Olken for deposit in the NNC account at IEEE. Check #3 was not signed by the required two conference officers. Dr. DeClaris has contacted the Maryland Bank and has offered to sign the check when it arrives there. As you can see in the attached letter to Bernard Widrow, INNS President, the INNS prefers that you provide the second signature.

I request that you initiate an audit of the subject conference using the firm of *Coopers and Lybrand*. This request has been approved by the officers of the NNC (Russ Eberhart, Treasurer and Prof. Evangelia Tzanakou, Treasurer). Dr. Widrow has also approved this procedure.

Sincerely,

Robert J. Marks II, Chair
IEEE Neural Networks Committee

- cc:
- Prof. N. DeClaris, IJCNN
 - Dr. Russ Eberhart, NNC Treasurer
 - Prof. E. Tzanakou, NNC Secretary
 - Ms. Laura Jobmann, IEEE Conference Services
 - Dr. Mel Olken, IEEE
 - Prof. R.W. Newcomb, IOC Chair

IEEE NEURAL NETWORKS COUNCIL

Russell C. Eberhart, Ph.D.
Vice President
Telephone: 301-953-5037
Fax: 301-953-1093
E-mail: rce1@aplvm.bitnet

Please reply to:
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, Maryland 20707 U.S.A.

March 20, 1990

Dr. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759

Dear Dr. DeClaris:

The IEEE Neural Networks Council (NNC) has retained the firm of Coopers & Lybrand (C&L) to conduct the required audit of the 1989 International Joint Conference on Neural Networks, held in Washington, D. C., for which you were Finance Chairman. The audit will be done by the San Diego office of C&L. The NNC recognizes the significant conference-related work you have already done, and will appreciate your full cooperation with the audit.

Very truly yours,



Russell C. Eberhart

cc:RJMarks, II



JASSOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASSOY, JR., CPA
WILLIAM L. GRAFF, CPA
ROBERT E. DOUGLAS, CPA
DAVID R. BRZEZNIAK, CPA
DANIEL P. SCHREIBER, CPA
FRANCINE N. VETTER, CPA

7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92037
PHONE: 454-3188
FAX: 619-454-3564

February 20, 1991

Mr. Patrick K. Simpson
Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, CA 92128

Dear Pat:

In response to your request, outlined below is the chain of events relating to our engagement to perform the audit of the Third Annual International Joint Conference on Neural Networks held June 18 through 22, 1989.

- Coopers & Lybrand was retained on February 13, 1990 by Russ Eberhart to audit the conference. I was the audit manager responsible for the past audits of IEEE conferences and the person who dealt directly with Mr. Eberhart on this engagement. Upon my resignation from Coopers & Lybrand in February 1990, the partner on the engagement requested that I continue to handle this audit for Coopers & Lybrand with the understanding that they would review the workpapers and issue the report.

Mr. Eberhart instructed us to contact Dr. DeClariss, Treasurer of the Conference and Meeting Management, the Company retained by IEEE to coordinate the conference, to obtain the records to be audited. The attached letter, dated March 8, 1990, requested the applicable records from Dr. DeClariss. He responded by telephone that he would need time to organize the information and, due to his schedule, this was an inopportune time. He indicated it would take a few weeks.

- As requested by Dr. DeClariss by phone on May 31, 1990, Jassoy, Graff & Douglas again requested documents from Dr. DeClariss by telecopier. A copy of the telecopier transmittal is also attached.
- During the course of the two month period, March through June, I was in contact with you and Mr. Eberhart to determine what steps I should take to effect the audit. I was informed that we could obtain the cancelled checks and bank statements directly from the respective banks. Meeting Management had copies of the invoices. With the combination we were able to complete the audit.

JASSOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

Mr. Patrick K. Simpson
Treasurer
IEEE Neural Networks Council

-2-

February 20, 1991

- Dr. DeClaris volunteered by telephone that it appeared to be better if he brought the records we requested on June 1, 1990 in person and meet with me in San Diego on June 18 and/or June 19. I was scheduled to be out of town both of those days. On June 24, 1990 he corresponded by letter (attached) and sent copies of the materials that he would have personally given to me.

We proceeded with the audit during the month of May using the documents obtained from the banks and those retained by Meeting Management. We did compare the information sent to us by Dr. DeClaris to our work to ensure that we had classified the information correctly.

Jassoy, Graff & Douglas completed their portion of the work on August 3, 1990 and forwarded the workpapers to Coopers & Lybrand for their final review. The final report was issued by Coopers & Lybrand on December 19, 1990.

I hope this provides the information you need.

Sincerely,



Patricia A. Sbarbaro
Audit Manager

PAS:ec

Enclosures



JASOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASOY, JR., CPA
WILLIAM J. GRAFF, CPA
ROBERT E. DOUGLAS, CPA
PIERRE WOOD, CPA
DAVID R. BRZEZNIAK, CPA
DANIEL P. SCHREIBER, CPA

7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92037
619-454-3100
FAX 619-454-3564

March 8, 1990

Nicholas de Claris, M.D.
School of Medicine
University of Maryland
Howard Hall
660 W. Redwood Street
Baltimore, MD 21201

Dear Dr. de Claris:

Coopers & Lybrand has been retained by the Institute of Electrical and Electronic Engineers, Inc. to perform an audit of the IJCNN 1989 conference. A copy of that engagement letter is attached. I will be in charge of the fieldwork and, therefore, your contact, should you have questions regarding the audit. Thank you for your assistance with this audit.

In that regard, would you please forward the following records for that conference to my attention at the following address.

Jasoy, Graff & Douglas
Certified Public Accountants
7777 Fay Avenue, Suite 100
La Jolla, CA 92037

I understand the records you have include invoices for speakers expenses, check books and bank statements for both checking and saving. Due to the nature of these items, please send them via Federal Express or a comparable carrier to ensure their safe arrival, as soon as possible.

Sincerely,

Patricia A. Sbarbaro

PAS:cc

Enclosure

Coopers
& Lybrand

ified public accountants

401 West A Street
San Diego, California 92101

in principal areas of the world

telephone (619) 232-8000

February 13, 1990

Institute of Electrical and
Electronics Engineers, Inc.
c/o Mr. Russ Eberhart
6770 Halfcrown Court
Columbia, Maryland 21044

Dear Mr. Eberhart:

This letter confirms the nature and scope of our engagement to audit the statement of revenue and expenses of the Institute of Electrical and Electronics Engineers, Inc.'s International Joint Conference on Neural Networks held in June 1989. The statement will be prepared on a cash basis and will not be intended to present results in conformity with generally accepted accounting principles.

Our audit of your statement of revenue and expenses will be made in accordance with generally accepted auditing standards and will include such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances. The objective of such an examination is the expression of our opinion on whether the statement presents fairly the results of operations on a cash basis.

Additionally, we will examine the allocation of revenue and expenses of the Conference between the Conference and the tutorial program. We will also examine the allocation of revenue and expense between the participating organizations based on provisions contained within Conference contracts.

As a part of our audit, we will consider the Institute's internal control structure, as required by generally accepted auditing standards, for the purpose of establishing a basis for determining the nature, timing, and extent of auditing procedures necessary for expressing our opinion concerning the financial statements.

Our audit will include procedures designed to provide reasonable assurance of detecting errors and irregularities that are material to the financial statements. However, as you are aware, there are inherent limitations in the auditing process. For example, audits are based on the concept of selective testing of the data being examined and are, therefore, subject to the limitation that such matters, if they exist, may not be detected. Also, because of the characteristics of irregularities, including attempts at concealment through collusion and forgery, a properly designed and executed audit may not detect a material irregularity.

*Ch has signed copy in file -
Signed by Russ Eberhart for IEEE*

Institute of Electrical and
Electronics Engineers, Inc.
February 13, 1990
Page Two

Similarly, in performing our audit we will be aware of the possibility that illegal acts may have occurred. However, it should be recognized that our audit provides no assurance that illegal acts generally will be detected, and only reasonable assurance that illegal acts having a direct and material effect on the determination of financial statement amounts will be detected. We will inform you with respect to illegal acts or material errors and irregularities that come to our attention during the course of our audit.

You recognize that the financial statements and the establishment and maintenance of an internal control structure are the responsibility of management. Appropriate supervisory review procedures are necessary to provide reasonable assurance that adopted policies and prescribed procedures are adhered to and to identify errors and irregularities or illegal acts. As part of our aforementioned consideration of the Institute's internal control structure, we will inform you of matters that come to our attention that represent significant deficiencies in the design or operation of the internal control structure.

Generally accepted auditing standards require that we communicate certain additional matters to you or, alternatively, assure ourselves that management has appropriately made you aware of those matters. Such matters specifically include (1) the initial selection of and changes in significant accounting policies and their application; (2) the process used by management in formulating particularly sensitive accounting estimates and the basis for our conclusions regarding the reasonableness of those estimates; (3) audit adjustments that could, in our judgment, either individually or in the aggregate, have a significant effect on your financial reporting process; (4) any disagreements with management, whether or not satisfactorily resolved, about matters that individually or in the aggregate could be significant to the financial statements or our report; (5) our views about matters that were the subject of management's consultation with other accountants about auditing and accounting matters; (6) major issues that were discussed with management in connection with the retention of our services, including, among other matters, any discussions regarding the application of accounting principles and auditing standards; and (7) serious difficulties that we encountered in dealing with management related to the performance of the audit.

Our fee for the audit will be \$7,000 to \$8,000, plus out-of-pocket expenses. We anticipate completing the engagement by March 1, 1990 unless unexpected factors are encountered.

If you concur with the foregoing arrangements, please indicate by signing in the space provided on the attached copy of this letter and return it to us in the enclosed self-addressed envelope.

Institute of Electrical and
Electronics Engineers, Inc.
February 13, 1990
Page Three

If you have any questions regarding the arrangements, please do not hesitate to contact Mr. G. Steve Hamm or Ms. Pat Sbarbaro. We appreciate the opportunity to serve Institute of Electrical and Electronics Engineers, Inc. and assure you of our sincere interest in continuing our professional relationship with your Company.

Very truly yours,

GSH:PAS:cls
Enclosures

Date Prepared	5/31/90
Prepared by	RW
Dr. Clark and Lamont by	
Reviewed by	
ALL/SUP	

IEEE/EJCNN
PHONE CONVERSATIONS

Activity Relating to June 19-22, 1989 EJCNN

5/31/90 Per DW DR DECLARIS he indicated that
he will send what we need to finish
the audit. However, he would like us
to send him a Fax of the items we
would to have.

Date Prepared
Prepared by
Dr. C. L.
Dr. Clark and
L. Lammert by
Reviewed by
L. S. S. S. P.

NICK DE LUARIS -

FAX (301) - 328 - 8013

1) FAX A LIST OF DOCUMENTS WE HAVE
AND WHAT WE NEED TO FINISH

2) A/c # OF OPERATING a/c.

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

MESSAGE CONFIRMATION

JUL-01-'90 09:19

TRANSMIT RECORD

TERM ID: JASSOY GRAFF DOUGLAS
TEL NO: 6194543564

NO.	DATE	ST. TIME	TOTAL TIME	#PGS	I D	ABB. NO	DEPT. CODE
863	06-01	09:16	00° 02' 12	OK- 3 NG- 0	(301) 328-0013		



JASOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

ROBERT W. JASOY, JR., CPA
WILLIAM I. GRAFF, CPA
ROBERT F. DOUGLAS, CPA
PETER E. WOOD, CPA
DAVID R. BRZEZNIAK, CPA
DANIEL P. SCHREIBER, CPA

7777 FAY AVENUE, SUITE 100
LA JOLLA, CALIFORNIA 92037
(619) 454-3188
FAX (619) 454-3564

FAX (619) 454-3564

TELECOPIER TRANSMITTAL LETTER

PLEASE DELIVER THE FOLLOWING MATERIAL AS SOON AS POSSIBLE

DATE: 5/11/90
TO: DR. DECLARIS
COMPANY: _____
PROJECT: 89 ITCNN Audit
FAX #: (301) 328-8012
PHONE #: _____
FROM: RAY WOOD
NUMBER OF PAGES (INCLUDING COVER SHEET): 3

PLEASE CALL US IMMEDIATELY IF ALL PAGES ARE NOT RECEIVED
PROPERLY. OUR PHONE NUMBER IS (619) 454-3188.

MESSAGE: Please send the information
we need via overnight delivery
as soon as you get it together.
Thank you.

9.2

Date Prepared	5/21/90
Prepared by	ZW
Checked by	
Di. Checked and	
L. Labeled by	
Reviewed by	
Final Review	

10FZ

DZ. Declaris,

The following are items that
we have obtained from Nomi Feldman;

- Calif. 1st From 11/89 - 12/89

ALC # 0561175654 - operating ALC

- Calif. 1st From 3/89 - 9/89

ALC # 0560000170 - Depository ALC.

- Disbursement Journal 10/17/88 - 11/20/89

- Original Invoices paid by the
operating ALC.

- Invoices from Sheraton Washington
Hotel and Speaker Expenses -
Travel Reimbursements.

The following are items that we
need to complete our engagement;

we have ~~obtained~~ from Norm. Feldman;

- CALIF. 1ST FROM 11/89 - 12/89

A/C # 0561175654 - OPERATING A/C

- CALIF. 1ST FROM 3/89 - 9/89

A/C # 0560000170 - DEPOSITORY A/C.

- DISBURSEMENT JOURNAL 10/19/88 - 11/20/89

- ORIGINAL INVOICES PAID BY THE
OPERATING A/C.

- INVOICES FROM SHERATON WASHINGTON
HOTEL AND SPEAKER EXPENSES -
TRAVEL REIMBURSEMENTS.

The following are items that we
need to complete our engagement;

- ALL BANK STATEMENTS and cancelled
checks for the checking A/C that
you maintained

CONT'D

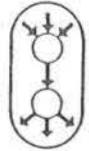
CONT'D

- All INVOICES that you have relating
to the '89 IJCNN.

- ANY UNPAID INVOICES that relate
to the '89 IJCNN.

- YOUR WORKSHEET OF CASH DISBURSEMENTS
FOR the IJCNN '89.

If you have any questions, please
give me a call.



TRANSACTIONS ON NEURAL NETWORKS

HERBERT E. RAUCH
Lockheed 92-20/254 E → 92-30/281
3251 Hanover Street
Palo Alto, CA 94304 U.S.A.

March 5, 1991

NOTE NEW ADDRESS,
BUT SAME TELEPHONE

To Bob Marks
Copy Russ Eberhart
Litsa Tzanakou

Subject TAB Symposium in Mexico

Bob, when the Symposium was to be in Europe, I had suggested to Litsa that you be one of the people. However, in your letter of February 26, you said you did not want to go to the Symposium in Mexico.

Here are my suggestions for two candidates

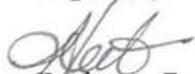
- (1) Pat Simpson
- (2) Mike Roth

Pat has been an officer for two years- all the other officers (except you, Bob) have been on the Symposium.

Mike is the "newest" addition to the group, and this would be a good opportunity for him to benefit and also contribution from his association with the Neural Network Council.

If either fo these two cannot go, my suggestions for a "back-up" person is Roy Nutter.

Regards,

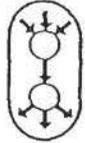

Herbert E. Rauch

P.S. I GOT YOUR TELEPHONE MESSAGE ABOUT NOMINATION LETTER FOR WINDOW, ETC. THANKS FOR YOUR HELP. HERR



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

February 26, 1991

Ad Hoc Symposium Appointment Committee
Russ Eberhart, Chair
Evangelia Tzanakou
✓ Herb Rauch

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

As you can see from the attached memo, the TAB Symposium has been moved from Europe to Mexico. As approved by our Ad Com, you are to identify two individuals to represent the Council at this event. Ideally, the individuals chosen should participate in extracurricular technical and social activities with regional IEEE members. The Council has already approved support.

I hereby delegate to the Committee the authority to select the participants and directly inform TAB. Please note the deadlines in the attached schedule.

I prefer not to participate in the Symposium this year.

Sincerely,

A handwritten signature in cursive that reads "Bob" with a small "ms" written below it.

Robert J. Marks II, President
IEEE Neural Networks Council

Attachment

cc: E. A. Parrish, Division V
V. A. Poor, Division X



THE JOHNS HOPKINS UNIVERSITY
APPLIED PHYSICS LABORATORY

Johns Hopkins Road, Laurel, Maryland 20707-6099
Telephone: (301) 953-5000 and 792-5000

Site - NN

March 5, 1991

Dr. Bradley Dickenson, Chair
NNC Awards Committee
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544

Dear Brad:

I hereby second Dr. Bob Marks' nomination of Dr. Teuvo Kohonen for the Neural Network Council's Pioneer Award. As Dr. Marks stated, Kohonen is truly a pioneer in the field of neural networks, having introduced self-organizing networks. I support everything said by Dr. Marks, and will not repeat it here.

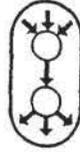
One of the most notable things about Kohonen's contributions is the neurode, or processing element, he first described in a 1972 paper. It is linear and continuous valued, rather than the all-or-none binary model of McCulloch-Pitts and Widrow-Hoff. Perhaps most notably, Kohonen's work laid the groundwork for a type of neural network very different from that evolved from the perceptron. Current versions of Kohonen's networks, sometimes referred to as self-organizing networks, learn to classify without being taught. This "unsupervised" learning can frequently be used to categorize information when we don't know what categories exist.

Teuvo Kohonen has not only been instrumental in developing new neural network paradigms, but also quite effective in passing on his knowledge to several academic generations of students. His presentations at tutorial sessions at international conferences are always well attended and well received.

I am pleased to second the nomination of Dr. Kohonen for the Pioneer Award. He is highly qualified to receive it.

Sincerely,

Russell C. Eberhart, Ph.D.
Program Manager



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-2-91

Prof. Leung Tsang
Dept. of Electrical Engineering
University of Washington
Seattle, WA 98198

Dear Leung,

The procedure for the *IEEE Geoscience and Remote Sensing Society* to join the *IEEE Neural Networks Council* is as follows:

1. A letter of intent must be received by the Council from the *IEEE Geoscience and Remote Sensing Society*. The letter should state that the *Geoscience and Remote Sensing Society* petitions for membership in the Council and agrees to abide by the Council's Constitution and Bylaws (copy attached).
2. The AdCom of the *Neural Networks Council* will vote on the petition. The next meeting of the AdCom is scheduled for this July at the Seattle IJCNN. I recommend that a Society representative be present during the AdCom meeting where the petition is considered.
3. When approved by the Council AdCom, final membership must be approved by TAB. It is the Council's responsibility to take the motion to TAB.

Thank you for your interest in the Council.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

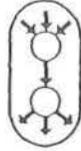
Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President

file



Tea



TRANSACTIONS ON NEURAL NETWORKS

Bob, for your information Tsohi Fukuda is by far the most delinquent Associate Editor. I sent him reminders on October 26, November 19, and January 4 (all enclosed copies). I saw him personally the week of December 7 in Hawaii and he said he had mailed some and would mail the others the next week.

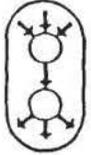
Mike Roth sent him e-mail around January 1.

At the NNC meeting in Baltimore, Toshi has some excuse, and said he would do it right away.

HE HAS FOUR PAPERS THAT WERE SENT TO HIM WITHOUT ANY RESPONSE AT ALL ON HIS PART.

For your information/

The papers were sent to him two months before the due date- i.e. June 27 through August 8.



NEURAL NETWORKS COUNCIL

Herbert E. Rauch, Editor
IEEE TRANSACTIONS ON
NEURAL NETWORKS
Lockheed 92-20/254 E
3251 Hanover Street
Palo Alto, CA 94304 USA
(415) 424-2704
Fax: (415) 424-2662

October 26, 1990

Dear Professor Fukuda,

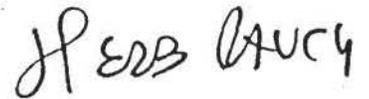
Enclosed is the list of four papers which have been sent to you. They all all overdue. Please try to get some of them done right away.

Thnaks for your help.

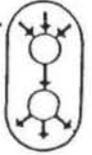
Regrards,


Herbert E. Rauch

REMINDER 19NOV
PLEASE MAKE DECISIONS
ON THESE PAPERS,
THE AUTHORS ARE
TELEPHONING ME
TO ASK WHAT
HAPPENED.



FUKADA	
PAPER TNN#	DUE DATE
250	27AUG
255	10 SEP
276	24 SEP
289	8 OCT



TRANSACTIONS ON NEURAL NETWORKS

Herbert E. Rauch, Editor
IEEE TRANSACTIONS ON
NEURAL NETWORKS
Lockheed 92-20/254 E
3251 Hanover Street
Palo Alto, CA 94304 USA
(415) 424-2704
Fax: (415) 424-2662

January 4, 1991

Professor Fukada

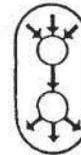
Author Cruz (TNN#289) keeps telephoning me asking about his paper. I have not received material from you for all four of the enclosed papers. Please send me your decision and the reviewers comments as soon as possible- by overnight mail.

Thanks for your help.

A handwritten signature in cursive script that reads "HERB RAUCH".



NEURAL NETWORKS COUNCIL



Herbert E. Rauch, Editor
IEEE TRANSACTIONS ON
NEURAL NETWORKS
Lockheed 92-20/254 E
3251 Hanover Street
Palo Alto, CA 94304 USA
(415) 424-2704
Fax: (415) 424-2662

January 31, 1991

Dear Colleague,

Enclosed is an extra copy of the January 1991 issue of the IEEE Transactions on Neural Networks. Thanks for your help.

Sincerely,

A handwritten signature in cursive script that reads "Herb Rauch".

Herbert E. Rauch

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Morgan Downey

Name of Firm: INNS

Location of Firm: _____

Facsimile Telephone Number: 202-466-3079

From: RJ Marks II Phone: 206-543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 4 pages.

Date: 4/2/91 Time: 9⁰⁵

Comments: _____

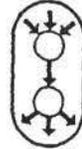
Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

Attached letters to Werbes of 3/1/91
and letter of 2/28/91 - cover letter & dissolution agreement



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-1-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I enclose a flyer for a conference entitled *International Conference on Artificial Neural Networks in Engineering* to be held November 10-12, 1991 in St. Louis, Missouri. The INNS (Midwest Special Interest Group) is listed as a Co-sponsor. The Singapore IJCNN will be held the week after this conference.

Please note that paragraph 14 of the Agreement between our two Societies states, in part,

BOTH ORGANIZATIONS WILL REFRAIN FROM SPONSORING OTHER MAJOR ACTIVITIES IN THE FIELD OF ARTIFICIAL NEURAL NETWORKS WITHIN ONE MONTH OF EACH IJCNN. BOTH SOCIETIES MUST AGREE TO COOPERATE ON INVOLVEMENT IN ANY MAJOR NEURAL NETWORK CONFERENCE ACTIVITIES HELD WITHIN 30 DAYS OF AN IJCNN.

Since the Council is not participating in the conference, and since the title *International Conference* clearly identifies the intent of the organizers that this be both a major activity and a major conference, there is an apparent violation of the Agreement by the INNS.

I assume that this action took place without the knowledge or approval of the INNS Governing Board. On behalf of the Council ExCom, I call it to your attention with the hope that you will take immediate steps to return to compliance with the Agreement. Doing so, I believe, will make the joint effort of the INNS and the Council in Singapore more successful.

I look forward to your response.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

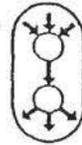
cc: Roy S. Nutter, IOC Chair
Mary Ann DeWald, IEEE Conference Services
NNC ExCom:

Russ Eberhart, NNC VP
Michael W. Roth, Transactions Ed.
Evangelia Tzanakou, Secretary
Patrick K. Simpson, NNC Treasurer

File



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Nicholas De Claris
Professor of EE & Pathology/
Preventive Medicine
University of Maryland
Electrical Engineering Dept.
and School of Medicine
College Park, Maryland 20742

Dear Nick:

I have been directed by the Neural Networks Council AdCom to refer all aspects of the 1989 IJCNN audit to the Technical Activities Department at IEEE. As you can see by the attached correspondence to Dr. Engelson, I have done so.

To the best of my knowledge, approximately \$2,000 in conference surplus has yet to be returned to the Council. I believe that you are still in possession of a check for this surplus. If you have not already done so, I request that you send the check directly to Dr. Irving Engelson at IEEE. I request that you do so before April 15.

Cordially,

A handwritten signature in black ink that reads "Robert J. Marks II".

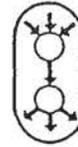
Robert J. Marks, President
IEEE Neural Networks Council

cc: Dr. Irving Engelson
IEEE Technical Activities Dept.

Attachment

bc: Russ Eberhart, NNC Vice President
Patrick Simpson, NNC Treasurer

Sell



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Dr. Irving Engelson
IEEE Activities Department
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Dr. Engelson:

On June 19, 1990, IEEE Neural Networks AdCom passed a motion "that we recommend that IEEE headquarters pursue and refer to the Technical Activities Department the results of the audit of the 1989 IEEE/INNS IJCNN."

To adhere with this motion, I hereby enclose

1. A copy of the subject audit.
2. A transcript of the discussion of the AdCom concerning this motion.
3. Copies of material submitted to the record during this dialogue.
4. The Auditor's solicited chronological documentation of events surrounding the audit with copies of supporting correspondence.

I will henceforth refer all queries concerning this matter to your office.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

CC: Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Patrick K. Simpson, NNC Treasurer
Nick DeClaris, IJCNN Finance Chair
Paul Werbos, INNS President
Charles Robinson

File

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Coopers
& Lybrand

certified public accountants

REPORT OF INDEPENDENT ACCOUNTANTS

To the Committee of
The Institute of Electrical and Electronics Engineers, Inc.
Third Annual International Joint Conference on Neural Networks
San Diego, California

We have audited the accompanying statements of revenue collected and expenses paid and distribution of net proceeds on a cash basis, for the Third Annual International Joint Conference on Neural Networks held on June 18 through 22, 1989. These financial statements are the responsibility of the Conference's Committee. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

As described in Note 1, the accompanying statements of revenue collected and expenses paid and distribution of net proceeds have been prepared on the basis of cash receipts and disbursements, which is a comprehensive basis of accounting other than generally accepted accounting principles.

In our opinion, the financial statements referred to above present fairly, in all material respects, the revenue collected and expenses paid and distribution of net proceeds of the Third Annual International Joint Conference on Neural Networks covering the period of June 18 through 22, 1989, on the basis of accounting described in Note 1.

Coopers & Lybrand

San Diego, California
July 26, 1990

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

REPORT ON AUDIT OF STATEMENT OF REVENUE COLLECTED AND
EXPENSES PAID AND DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks
Held on June 18 Through 22, 1989

THE INSTITUTE OF ELECTRICAL AND
 ELECTRONICS ENGINEERS, INC.

STATEMENT OF REVENUE COLLECTED AND EXPENSES PAID
 For the Third Annual International Joint
 Conference on Neural Networks
 Held on June 18 Through 22, 1989

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Revenue collected:			
Registration	\$368,931	\$ -	\$368,931
Tutorials	-	203,225	203,225
Exhibits	43,690	-	43,690
Proceedings	9,845	-	9,845
Other revenue, including interest of \$10,563	<u>13,223</u>	<u>5,281</u>	<u>18,504</u>
Total revenue collected	435,689	208,506	644,195
Expenses paid:			
Marketing	16,054	16,053	32,107
Administration	8,807	-	8,807
Exhibits	9,439	-	9,439
Proceedings	79,243	-	79,243
Hospitality	138,364	-	138,364
Committee expense	20,044	3,582	23,626
Local arrangements	33,067	8,267	41,334
Tutorials	<u>-</u>	<u>84,417</u>	<u>84,417</u>
Total expenses paid	<u>305,018</u>	<u>112,319</u>	<u>417,337</u>
Net proceeds	<u>\$130,671</u>	<u>\$ 96,187</u>	<u>\$226,858</u>

The accompanying notes are an integral part
 of the financial statements.

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks
Held on June 18 through 22, 1989

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Net proceeds	<u>\$130,671</u>	<u>\$96,187</u>	<u>\$226,858</u>
Distribution:			
Educational Activities Board	\$ -	\$96,187	\$ 96,187
Technical Activities Board	130,671	-	<u>130,671</u>
			<u>\$226,858</u>

The accompanying notes are an integral part
of the financial statements.

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

NOTES TO STATEMENT OF REVENUE AND EXPENSES
AND DISTRIBUTION OF NET PROCEEDS
For the Third Annual International Joint
Conference on Neural Networks

1. Organization and Basis of Presentation:

The San Diego Chapter of the Institute of Electrical and Electronics Engineers, Inc. (the I.E.E.E.) held the Third Annual International Joint Conference on Neural Networks from June 18 through 22, 1989. The statements of revenue collected and expenses paid and distribution of net proceeds for that conference have been prepared on the cash basis of accounting and not on an accrual basis, as would be required by generally accepted accounting principles. In order for the statements to be in accordance with generally accepted accounting principles, revenue would be recognized when earned, rather than when received, and expenses would be recognized when incurred, rather than when paid (see also Note 3).

2. Income Tax:

No income tax has been provided on the net proceeds since this was an activity of the I.E.E.E. and the outcome will be incorporated into their operating results at year-end.

3. Contingencies (Unaudited):

Below is a summary of the unaudited payable outstanding at June 22, 1989. Had this liability been reflected as an expense in the accompanying statement of revenue and expenses, the net proceeds from the conference and tutorials would have been as follows:

	<u>Conference</u>	<u>Tutorial</u>
Net proceeds	\$130,671	\$96,187
Expenses:		
Audit fees	<u>9,200</u>	<u>2,300</u>
Total	<u>\$121,471</u>	<u>\$93,887</u>

Additionally, the conference had an advance of \$41,000 from the I.E.E.E. San Diego Section, which was refundable to them. This amount has not been included as revenue or expense in the accompanying financial statements.

I.E.E.E., as a not-for-profit organization, is not subject to income taxes on interest revenue. A notice of the tax exempt status was not filed with one of the financial institutions; consequently, they withheld \$1,350 of income taxes. This amount is due to I.E.E.E.

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Department of Biomedical Engineering • College of Engineering
P.O. Box 909 • Piscataway • New Jersey 08855-0909 • 908/932-3155 • FAX: 908/932-3753

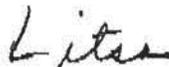
January 30, 1991

Professor Robert Marks II, Chairman
IEEE Neural Networks Committee
University of Washington
Dept. of Electrical Engineering
Seattle, WA

Dear Professor Marks:

As per your request, here are the minutes of the
Executive Session on June 19, 1990, with attachments.

Best regards,



Evangelia Micheli-Tzanakou
Professor and Chair
Biomedical Engineering

EXECUTIVE SESSION

A motion by P. Simpson "I move that we recommend that IEEE Headquarters fully pursue and refer to the Technical Activities Board any alleged irregularities in any IEEE Neural Networks Council sponsored conferences" instigated the meeting to continue under an executive session (see p.6 for the actual executive session).

NICK DECLARIS - This motion is directed to me personally. OK. I was the finance Chair for the IJCNN 89. The first IJCNN which is the one held in Washington. The general chair for that meeting was Co Chairs Snyder and Stubar and they developed a budget in which I had no part in making the budget. I sat down and I accepted it and accepted the appointment as Chairman of the Finance Committee and put myself to the order of enforcing that particular budget. The bottom line of that I will not trouble this council at this stage but some other time I will. There were a number of irregularities, things taking place which I attempted to straighten out.

P.SIMPSON - I think this is exactly the thing....

NICK DECLARIS - Would you like me to finish.. among the things that came out, we enforced the budget in a way that we ended up with a profit of nearly little more than \$200,000 at the end - \$200,000 profit came because we did not adhere to the budget. If we had spent what was budgeted there would not have been a profit of \$200,000 and the reason we did not spend it was because we policed it very very heavily. We kept very good records and I had requested at the time, as Chairman of the Finance committee, to appoint an auditing firm of national name that would have both offices in Washington and San Diego because although the

Committee - the meeting was in Washington, the money was spent -- the actual money was handled here in San Diego - the money came and was deposited in a bank in San Diego, the money was spent in Washington - you can all see the nightmare of a situation like this. The bottom line is for whatever reasons, the recommendations I made, and although Bob had agreed that we will have an audited committee, was reversed.

BOB MARKS - I'm sorry...but

NICK DECLARIS - Remember, I had requested a firm in Washington and I proceeded to make the negotiations.

BOB MARKS - I never approved that

NICK DECLARIS - I have a written statement that you agreed on that subject to approval.

BOB MARKS - I believe the word "tentative" was used in that

NICK DECLARIS - YES - but be that as it may the next thing was that an auditing firm was appointed and nothing happened to it in December when we were supposed to have it and we were not - I was not notified-until February that an auditing firm has been assigned to audit those records, the exact date of the letter was Feb. 20 or thereabout.

RUSS EBERHART - Your were notified on January 15 - its in the minutes that Cooper and Lybrand..

NICK DECLARIS - Well, as it turns out it is not Cooper and Lybrand doing it - it is a local firm in Washington - they have delegated it to another firm.

R. EBERHART - The audit will be issued by Coopers and Lybrand...

BOB MARKS - let Nick complete his statement and we can have

further discussion.

NICK DECLARIS - the point is that when I was notified that they had a firm it was at a time when already a number of things had taken place that could not be attended. Since that time, I have notified the local people here - in fact when I got here I came just in order to close these accounts. I had difficulty in doing that and at this stage I am trying to see how I can do this without confrontations otherwise there will be confrontations.

BOB MARKS - For the record, you have been removed from the financial obligations of the conference by an agreement between INNS President, myself, and with the concurrence and knowledge of Irv Engelson and in that letter which you have just received it was stated that the audit would be performed by Coopers & Lybrand.

NICK DECLARIS - But I told you, I was not contacted by Coopers. The letter which I have here is from a different firm.

P. SIMPSON - Graff and Douglass - but they are acting - they are subcontracted from Coopers.

N. DECLARIS - But that presents problems, the firm which I was

P. SIMPSON - The relationship, Nick, is explained in this booklet.

NICK DECLARIS - I did not receive a copy of this book. The only thing I received was by Graff and Douglas, a local firm, not a firm which has a representative in ... and I attempted - I came and I called these people and I was not able to see them. So I have a problem in negotiating--here is the letter for anyone who wants to see it dated March 8, 1990. March 8th!

BOB MARKS - If you would like to enter that into the record, you

are welcome to do so. I recognize Russ Eberhart.

R. EBERHART - There is a lot of history here - I am not going to go through the history I'm going to say the facts. I'm going to read sections of the IEEE Conference Organization Manual and then I'm going to say briefly what was done. Sec. 8 on the finance committee and each finance committee is required to follow these guidelines.

Sec. 8.1.1 - all conference bank accounts must have the identifying IEEE in the first part of the accounts name - a bank account must never be in an individual's name. That was not done on this account. Sec. 8.1.1.2 IEEE policies and procedures requires that all conference bank accounts have alternate signatures designated. Minimum signatures include 1 volunteer alternate from the conference committee, usually the conference chairman. That was not done on this account. The IEEE Controller, or the Controller's designee. That was not done on this account until October or so. The uniform employer identification number that has been assigned by the IRS for use by all IEEE conferences is such and such - this should be used whenever IEEE financially sponsored conferences - this was not done in this case.

It is the responsibility, now this is 8.1.1.4, it is the responsibility of the conference treasurer to report to the IEEE the principal amount, annual accrued interest, account number, and name and address of any financial institution in which any account is open and exists at the end of the year. This information is required by the institute of internal revenue service information and this was not done.

Closing of an account - each conference is required by IRS

regulations to close its account and submit a final financial report which is contained in this manual to IEEE headquarters. It is the responsibility of the Conference financial conference chairman to insure that this procedure is strictly followed in order to protect IEEE non-profit tax status. That was not done in this account.

We received a letter dated Oct 9 1989 from the Conference finance chairman in which he says "I am declaring a surplus of \$194,000 which at the request of Bob Marks I am now distributing equally to the NNC and INS and included in the finance statement was a contingency of \$8,000 so the total here is \$202,000 tentative surplus. Since this letter was rec'd by us which was submitted to the IEEE as the final financial report of the Conference at least in the understanding of Irv Engelson and Mel Olken at headquarters we have received funds on December 4th closing out an account at a San Diego bank for \$6021.66.

There is also another account here in San Diego that has a couple of thousand dollars in it and an account in Baltimore with a balance in excess of \$25,000. On Feb. 13, 1990 the IEEE signed with Coopers and Lybrand a letter authorizing the audit. Pat Scarbaro of Coopers and Lybrand left the company and went to this other company with the agreement that the final audit will be issued by Coopers and Librand because she has audited this conference for the 3rd year. On March 20, 1990, I sent a letter to Dr. DeClaris reading in part "the NNC recognizes the significant conference related work you have already done and will appreciate your full cooperation with the audit (letter attached to these

minutes). As of noon today, Coopers and Lybrand has not received any information to perform the audit from Dr. DeClaris.

Section 8.4.1, is the final responsibility of the treasurer to prepare a final report by completing the summary financial report form in this book and repay all loans. This should be done within 6 months of the conference. This was not done in this case.

The last two I'll read. The financial report and supporting documents detail financial report forms 1 and 2 should be submitted to the conference general chairman for submission to each sponsoring entity and to the IEEE conference services office. This report should be filed within 6 months of the conference date (and this is underlined), it is not necessary that all accounting be completed prior to the filing of this report.

The last thing I'll read is section 8.4.3. In addition more complete detailed accounting to the conferences incoming expense items should be documented on the IEEE Conference detailed financial report (part I income and part II expense) - that was not done for this conference.

Those are the facts, the audit is on the way and I suggest that this council be aware that the reason this motion is made is not just for this conference but that this situation which has taken the emotional energy and time and has in my opinion tarnished the IEEE's reputation with some of our people we are dealing with in this conference, I would urge that we pass this motion.

C. ROBINSON - I am worried about a couple of things, so first of

all I rise to a point of privilege. I would ask that this be considered an executive session and all non voting members be asked to leave.

BOB MARKS - What's the rule on that. I will ask all non voting members to leave. We are now in Executive Session. I should mention that Dr. Louis has been given the written proxy of Toshio Kanaku

(Non Voting members left the room at this point).

EXECUTIVE SESSION BEGINS HERE

C. ROBINSON - I rise to a point or order. I must say I have nothing to do with this debate but I think both the discussion here and Russ your discussion did not address the motion that was made. They were facts that presented a case but in a situation where we may have a potential legal implication, points were raised that there was no right of conflict.

B. MARKS - I think that's the reason we have to do this.. to submit it to IEEE get it out of the agenda of this body.

C. ROBINSON - But the motion does not specifically relate to this particular item, you made a generic motion and specifics were raised.

P. SIMPSON - I could make a friendly amendment and be specific. I am the Treasurer of the Neural Networks Council. It is my job to close out the accounts of this Conference. That is my job. And I need to know where all the funds went to and I was not involved with that Conference, so I can consider myself an independent party. I just want to make sure all these funds are accounted for.

NICK DECLARIS - Well, why didn't you return my calls. I placed calls to you. You never returned my call, I never had a telephone number for you, I left a message in your tape, I left messages with Kosko and you never once contacted me personally. Have you ever once talked to me personally since you became the Treasurer. I have difficulties with Eberhart because he interfered in a way that I do not think is proper. But with you I never had any contact at all. You didn't even contact me to tell me what was happening.

P. SIMPSON - I know its unfortunate. My work schedule, Nick, is Sunday thru Thursday. And you called Thursday...

NICK DECLARIS - But I called a month ago.

BOB MARKS - Would you address the general motion.

P. SIMPSON - I would like a friendly amendment to be specific about this conference the IJCNN 89 I am happy to amend the motion to say instead of saying any Neural Network sponsored Conference. any IJCNN conference this conference.

BOB MARKS - Is there a second to the amendment?

BOB MARKS - Second, C. Robinson, OK I will accept that then as a friendly amendment.

NICK DECLARIS - Mr. Chairman, Eberhart raised points of accusations and I must be given the opportunity to answer every one he made.

BOB MARKS - Right, but I would like to see it taken out of this body.

NICK DECLARIS - But he made it in front of this body and you have to give me the opportunity to refute all the points he made because I disagree with the things he said and I think they are

libel or mistaken and intentionally so. For example, ...

C. ROBINSON - May I raise a point of privilege please, I would ask that Roberts rules be strictly adhered to in that the Chair rule that no one can speak more than twice on any motion before the board.

BOB MARKS - I'll adhere to that. Is your intent from this point on or... OK, I think from this point on, each person is allowed to address the question on the table in 2 items of discussion.

B. NEWCOMB - I don't understand the need for such a motion. Doesn't the IEEE automatically inform you or somebody if there is an irregularity. They have to do something, they are not just going to let it sit.

BOB MARKS - There is a question, and I'm not sure of the answer. Russ, would you respond to that question.

RUSS EBERHART - We were requested by IEEE headquarters, namely Irv Ingelson, to consider this motion.

B. NEWCOMB - So, Irv Engelson asked us to make such a motion, the Council to make such a motion.

R. EBERHART - Not those exact words. What he said was "if there are alledged or perceived problems or irregularities with the conference, we at headquarters must have some kind of a direction from the society or council to pursue, look into or further explore these alledged problems. Therefore, I would like a motion to come out of your Ad Com meeting".

BOB MARKS - Bob, do you want to continue with your statement or are you finished.

B. NEWCOMB - If there is really something wrong the IEEE head-

quarters has to step in and handle it. In fact, I'm worried that those of us here get involved in this kind of a problem.

BOB MARKS - That's why I would like to take it from this body and shoot it upstairs. Let's continue. If I am to adhere strictly to Roberts rules, I have to keep my opinions to myself.

C.ROBINSON - Point of record, I hate to keep doing this to you but I think its substantial that we keep it straight. I would like the record to show that the original motion did not specify any conference, that the gentleman on my right assumed was addressed to his conference and raised the point, and then Russ Eberhardt gave a response.

BOB MARKS - In addition, there was an amendment made and 2nd made to the amendment after that. So officially we are discussing the amendment. May I have a statement of the amendment.

NICK DECLARIS - I just want to make a point of order. I objected to the statements as being untrue. What Eberhart reported was untrue and deliberately so. Because he knows that some of the things he said were not correct. That's all. Statements were made that were untrue about my activities.

E. TZANAKOU - If I can make it straight after all these discussions. OK, the first motion was saying, "I move that we recommend that the IEEE headquarters fully pursue and refer to the technical activities board any alledged irregularities in any IEEE neural networks council sponsored conferences." That was made by Patrick Simpson. Then he made a friendly amendment to refer to the particular conference which was the one that Dr. DeClaris was the financial chair.

BOB MARKS - The motion belongs to the body and therefore if we are strictly adhering to Roberts rules, we are addressing the amendment which was also made by Pat and seconded by Russ.

C. ROBINSON - Call the amendment.

NICK DECLARIS - I would like to be given the opportunity to discuss the amendment.

The amendment is called. The call is undebatable which means that we now vote, what is the vote - yes 2/3 - OK we are now voting on whether we vote on the amendment.

--What's the amendment?

BOB MARKS - Do you have a statement of the amendment?

E. TZANAKOU - It was amended to refer to the particular conference which was in 1989.

B. MARKS - So if 2/3 vote positively then we immediately vote on the amendment. I call the question. All in favor. Could I request the secretary to verify my vote count. All in favor of immediately voting on the amendment - 11. All opposed 0. Abstain 2. We immediately vote on the amendment. May I have a statement of the amendment.

E. TZANAKOU - We refer to the particular conference of the IJCNN of 1989.

BOB MARKS - All in favor. We are now voting on the amendment.

PAT SIMPSON - Here's how I understand it. We are recommending that IEEE headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989..

C. ROBINSON. - No, No, --you have to read the original one.

PAT SIMPSON - OK IEEE Neural Networks Council sponsored

conferences.

BOB MARKS - That was the original motion.

P. STIMPSON - It was then amended to say, "instead of any IEEE Networks Council sponsored conferences" to say, "in the 1989 IEEE/INNS International joint conference."

BOB MARKS - All in favor of the amendment. No discussion. We are voting on the amendment specifically.

BOB MARKS - All in favor, please raise your hand. 10. All opposed 2. The amendment passes. May we have a reading of the original motion as amended, please.

P. SIMPSON - I move that we recommend that the IEEE headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989 IEEE/INNS International Joint Conference on Neural Networks.

BOB MARKS - Is there any discussion on the amendment.

NICK DECLARIS - I would like to address now the positions made.

C. ROBINSON - On the amendment?

BOB MARKS - No, No, this is on the original motion as amended.

NICK DECLARIS - Let me say, there were the following irregularities from my point of view. There was an account here in San Diego opened and operated by N. Feldman of which I knew nothing and over which I had no control. And that account actually had money which was deposited on behalf of that Conference of which I was not advised and of which Eberhart was advised and he did not let me know. There was money that belong to the budget of which I didn't have knowledge but neither did the general chairs.

Second, the attempt that I made to find out about this audit is that this morning I had notified people I would be here in San

Diego and I wanted to meet with them. I called and the auditor, Pat Szarabo, was out of town. Yesterday and today. And I spoke to one of the senior auditors, Bill Graff who told me he was sorry that these people were out of town so although I came here and I had records to discuss with them, I was not able to meet them. I specifically made it a point to attend to. As far as financial records, we had them ready and were ready to issue a report in December, but at that time, in fact I told Bob orally, and I called him, and I told him I was sending all the stuff in IEEE in January. He said to me I apologize to you because I have not written to you about the agreement we have and as a result of that, I send orders to my office not to send the stuff to the IBEE. And so there has been some confusion on the part of the people who work with me as to where the records are.

So I feel that a number of statements made here are definitely untrue and we would like to establish a procedure whereby at least the records I have can be safeguarded. Today I went to the bank in San Diego and I closed the account. We have given instructions to close that account before and it was not done. I had to personally fly in and close that account. And I have with me a check for \$2,000 made not to individuals but made to the International Joint NN Conference 1989, dated June 19, 1990 \$2,000. A copy will be put in the records.

P. SIMPSON - Its worthless. Nick, that is not the name of the conference. You were the Finance Chair of that conference .

B. MARKS - You can respond to that.

NICK DECLARIS - So you can see problems have been created because

of the interference with my office to execute the job we were to do.

B. MARKS - Are you finished.

N. DECLARIS - Yes.

R. EBERHART - I would like to request the chair to express his opinion.

B. MARKS - I think by Roberts rules I need to relinquish my Chair. Is that correct. So I relinquish my Chair. If it is acceptable to the body, Charles (Robinson) will you be willing to chair?

C. ROBINSON - I think that each of your officers would have to decline. Is it Treasurer and then Secretary?

R. EBERHART - I defer,

B. MARKS - Pat?

E. TZANAKOU - No, I think it is Secretary and then Treasurer.

B. MARKS - Would you take the Chair?

E. TZANAKOU - No, I defer.

B. MARKS - So then its an appointee.

E. TZANAKOU - Yes, its Charles.

For the record, gavel now turned over to Charles Robinson as moderator.

B. MARKS - There are some items I want to place into the record and attach to the minutes. From the beginning I was frustrated and found many obstructions. Let me state facts...Headquarters themselves and the Finance Committee Chair have also expressed the opinion. In particular, I have a letter of disassociation from the Conference Chairs Al Stubberud and Wes Snyder disassociating themselves from the Conference because they cannot

get any sort of records regarding the financial aspects of the Conference. I will give this to the Secretary (Attachment I). Also, there is another document by Marks and Widrow dated 10/17 (Attachment II) in which I informed him there would be an audit to be done by Cooper and Lybrand with the concurrence of Irv Ingelson.

B. NEWCOMB - May I ask a question? What are we doing here. I really worry about many things.

C. ROBINSON - I do recognize that as a question of privilege and a question of order. From a parliamentary standpoint, I think that this documentation has probably gone far beyond the tenets of supporting the motion. Although it was originally raised by Dr. DeClaris, I do not think in strict parliamentary sense that this discussion is directed to the general gist of the motion.

B. MARKS - May I request that these documents be included in the minutes?

C. ROBINSON - And I do that for a couple of things. I think we need to recognize that as the administrative and governing body of the Society we have made some substantial discussions on both sides and the parties involved have not been given the privilege of counsel.

B. NEWCOMB - This is what concerns me, it is not a matter, I feel, for us, maybe we should be informed. I think its a matter for some other body.

C. ROBINSON - Well, if, from what I heard, as long as he states dates and letters. And Dr. Eberhart gave dates and times and citations of various documents. And Dr. Marks has also presented

dates and times, there is no problem. But as soon as someone comes in and says someone failed to do something, then maybe. So if you wish to read into the records any date, any time when you sent a letter and the fact that you didn't receive a response, that's fine. But when you attribute other things to people, I don't think we should do that. And I would welcome the sense of anyone here.

B. MARKS - May I say something. I would like to apologize to Professor DeClaris for any statements considered derogatory and I would also like to state I am in support of the motion. I don't think its the purpose of this body to do that, the IEEE has procedures and skills...

N. DECLARIS - I want to respond. The first time that I officially heard that was true that I received communication from Bob Marks that they getting Cooper and Lybrand to do the audit I have I was not contacted by anybody officially until March 8, 1990. So I want to enter it into the records. On March 8th, I was contacted by Jackow, Graff & Douglas who advised me that Cooper and Lybrand had been retained but they were doing the job. But what is important to remember is that Jackow etc. is an accouting firm in San Diego, not a nationally known firm, like the one I proposed. But more important, is the accountant who was going to do the account was the same one who has done the previous audits in the Conference before and which I had serious questions in behalf of this organization. So I want that entered into the record.

C. ROBINSON - Now this is your second time at talking the motion. Is there any other comments you wish to make.

N. DECLARIS - Yes, my comment is the way I would propose to do

this is I would like that since there has been no communication for me by any of the officers of the council about the so called wrong doings, I would like to ask if possible that a sub committee of this council be created that would work with me so that we can bring a report to this council as to the status of the financial affairs of that meeting.

C. ROBINSON - Are you a voting member?

N. DECLARIS - Yes.

C. ROBINSON - OK make a motion.

B. NEWCOMB - There is a motion on the floor

C. ROBINSON - This could be an amendment

N. DECLARIS - Can I make an amendment

B. NEWCOMB - What if he is opposed to the present motion.

B. MARKS - I have no problem with this suggestion

C. ROBINSON - I will rule on this. Here's what happens in Roberts Rules. If the motion that is on the table passes, then I would call your motion out of order because it was already debated and discussed. Whereas if it comes in the form of an amendment, it could die for lack of a second or it could be an immediate call. The question is debatable.

N. DECLARIS - May I continue then in that case

--May we read the motion

E. TZANAKOU - "I move that we recommend that IEEE Headquarters fully pursue and refer to the technical activities board any alleged irregularities in the 1989 IEEE/INNS joint conference on neural networks."

C. ROBINSON - Rather than the IEEE, the motion could say a sub

committee of this body be appointed.

N. DECLARIS - I would then like to ask for "a sub committee of this body be created that would work with me to receive a final report of the financial accounts for IJCNN 89 because there are accounts and funds that I don't have knowledge of to this day. So the committee could work with me to get the accounts and the finances of that committee clear. This should take place in the next 30 days."

C. ROBINSON- However, I need a second or it dies.

E. TZANAKOU - Can we read it again. "A subcommittee of this body is formed and works with Dr. DeClariss to complete the financial statement regarding the IJCNN 89 finances within 30 days."

C. ROBINSON - Do I hear a second. Again, I will ask, do I hear a second. SECOND. This amendment is open to discussion. Everybody will have 2 shots at discussing it. Marks and Russ, and I don't know your names but if you put your hand up I will note your position.

B. MARKS - Two comments, I don't think this second study is necessary, we have all the financial records from the banks, from Cooper and Lybrand who has given an oral report. I believe this amendment which has been discussed and second, we should get this situation out of this body....

R. EBERHART - I am against the amendment. It is the position of myself and IEEE headquartersa lot of conversations....that Dr. DeClariss was aware of all these accounts. In fact we were the ones who were not aware of the existance or location..The one referred to in San Diego is a deposit only account, you can put money in, but not take it out, and months and months went by and

I think we should get it out of this body.

P. SIMPSON - I would just like to speak on behalf of...

C. ROBINSON - Are you for or against..

P. SIMPSON - Against the amendment. The original amendment as stated in no way condemns anybody, it just says if anything bad happened, and we have enough information for the audit now, is for Professor DeClaris, if he choses, to provide the information to this 3rd party and they will complete the audit and based on the outcome go forward. In no way are we saying this is what's going to happen. It just gives us a tool.

C. ROBINSON - Is anyone speaking for the amendment.

N. DECLARIS - Let me say, it is clear here that a number of people have kept me in the dark. I did not know and nobody contacted me about this type of information. We have detailed records which I have here; budget spread sheets which show exactly what we have, but no one contacted me about this. He is the Treasurer, and Bob Marks has not spoken to me since January about this issue. In January when we met he was told he would contact you about who will do the audit and you will receive a letter. So, I speak for this motion because I don't want a confrontation. I will have to turn this into a legal (matter.)

P. SIMPSON - In response, I have intentionally not returned any phone calls and my intention as Neural Networks Treasurer was to allow the audit to happen without me intervening and leave it as "third party" as possible. I think in all fairness that is the best way to handle this.

B. MARKS - The reason you weren't contacted is because the final

audit was due in September as IEEE policy requires -- its 120 days. Wait-its been 6 months, and not having received the final audit I requested the IEEE send a letter to Nick and I would handle the final requirements. Thats my response, I think you will find the minutes very clearly stated that the audit will be done by Cooper and Lybrand. Also, I would like to submit for attachment to the minutes, with the Chairman's permission, the latest letter from Russ Eberhart requesting again that you please comply with the audit (Attachment III).

B. NEWCOMB - I don't understand why the audit itself doesn't take care of all this. There is an audit going on as I understand it. Why do we even need any motions? The audit should take care of it. The IEEE headquarters will come back and tell us if something is wrong. Keep us out of the loop. We shouldn't have anything...

C. ROBINSON - Point of Clarification. I would like the President, Why is this audit(or the Treasurer)?

P. SIMPSON - The reason is the lack of participation (March was 3 months ago) and that raises red flags.

B. NEWCOMB - We can be through legal things that take years. The audit will take care of all of that. As individuals, we shouldn't be involved in this.

P. SIMPSON - The point I am making is that the auditors couldn't do the audit because of a lack of communication.

B. NEWCOMB - Well, we can't make anybody do anything if IEEE or the auditors can't. If this is to force someone to do something we are in no position to do that. IEEE headquarters maybe, the auditors or the courts. But not us, why try to make us lawyers?

C. ROBINSON - If I can reflect back, and have the Secretary look

at it, the statement was made that the IEEE wanted a strong statement from this council to continue with the audit.

B. NEWCOMB - I feel they have full rights to do it on their own. They don't need us to do it.

C. ROBINSON - (To R. Eberhart) Clarify that.

R. EBERHART - Well in conversations I had with Mel Olken and Irv Engelson it was stated that in order to pursue this they require the Council involved direct them to do it. They don't just do it with a phone call. They must have a recommendation from the society or council to pursue such a matter.

N. DECLARIS - I was also in contact with headquarters. In November, I was advised that there were money belonging to the conference from the sales of the Proceedings. That money never came to me. I have not received the funds that came from the records of the sales of the Proceedings.

C. ROBINSON - Alright now, this is going to be your last time to talk.

B. NEWCOMB - It seems to me that it is a legal matter at this point and legal things don't need assumptions. But I don't want to get involved, and I don't want to vote yea or nay on any such motion because it puts me in the courts and I don't want to be in the courts.

Call the question.

C. ROBINSON - That's not debatable. We are voting on whether to vote on the motion. It takes a 2/3 vote. [passed] We now are voting on the amendment by DeClariss. Will the secretary please read the amendment.

E. TZANAKOU - Dr. DeClaris suggested that "a sub committee of this body is formed and work with him to complete the financial statement for the 1989 conference within 30 days."

B. MARKS - May I request a secret ballot?

C. ROBINSON- Point of privilege

B. MARKS - Point of Order. Appoint 2 tellers. [who were the tellers?] Dr. Lau and the gentleman next to him. (Dr. R. Nutter)

C. ROBINSON - I will ask...the gentlemen next to you to count the ballots. Use the Mariott stationery please. I am assuming that I do not vote. Everyone should use the white Mariott paper. (Moderator counts who can vote, total 18.) Mark your ballots. If you vote proxy mark 2 ballots. This is for the amendment. Please vote yes or no or abstain.

B. MARKS - If you vote NO, we return to the original motion and its amendment.

N. DECLARIS - If you vote yes, you are voting for the amendment, to collect information needed to do the proper report.

C. ROBINSON - 18 ballots need to be cast. If I do not count 18 we will revote. OK, Please count. We have 12 voted no, 2 yes and 4 abstain. The amendment is defeated.

E. TZANAKOU - How many abstentions? (reply 4)

C. ROBINSON - Is there anyone who has not spoken towards or against the original amendment and would like to do so?

D. BROWN - Yes, I agree with Bob (Newcomb) and _____, but I still don't see why we had to have this separate motion, it seems to me that if the audit is ongoing, which I understand it is, then won't we get the results from the audit, and if there is a problem with cooperation I'm not sure that our discussing this

motion is going to enhance the cooperation of the parties involved. I think its important to do exactly what you said - to move it from this council - there is nothing to do at this point but wait for the outcome of the audit. I still think your (unspecified reference) question is unanswered. Maybe if the IEEE wants us to do something it should be more than a phone conversation. Maybe they should write us a letter and say "this is what we want you as a council to do."

C.ROBINSON - I think I could answer that. The IEEE has tremendous resources that it can bring to bear and it has to be specifically requested. And I think what I gather from the sense of this is that they would be willing to bring those resources to bear on this matter in addition to or in conjunction with the audit. But they need the direction of this council to do so.

D.BROWN - So they are going to bring something besides the Coopers and Lybrand audit. What are these resources besides the auditors?

H.RAUCH - I concur with Bob's sentiment for a entirely different reason. As worded it is somewhat hypothetical. Suppose something really happened here, but we shouldn't be asked to presume about something that we aren't able. We have entered into the record now a certain set of facts, but what we haven't seen here is the conclusion of what I hope is a confident assessment of the situation. It is enough hypothetical to make me worry about it.

C.ROBINSON - What are the implications if this motion did not go forward? Mr. President.

B.MARKS - First of all if the audit report did come back with

sensitive matters then(can't hear him at all). If indeed there are charges associated with the audit, then there are lots of consequences.

--Anyone else...

B. DICKINSON -I have a question, is the motion as stated asking the IEEE, then, to do as you said. I thought the motion as stated was asking the IEEE to report back to us so it would come back to us.

C. ROBINSON - Please read the motion

E. TZANAKOU - The motion reads, "I move that we recommend that IEEE headquarters fully pursue and refer to the technical activities board (not to us) any alleged irregularities on the 1989 IEEE/INNS international joint conference on neural networks."

DR. LAU - I have an observation and also a comment. I sense that the strategy of this council is to look into the matter itself and that the purpose of this motion is to bring the matter to the attention of someone higher than this body. Essentially because of the problems involved, the strategies of the councils... If the consensus is that problems are involved, then the Council can investigate the outcome. Since the financial chair is involved, then an impartial person (also given the time lapse involved) then a higher body should be involved.

Unknown Speaker - Can I speak again? [NO] Then, this is one reason I object to the way this is being done.

C. ROBINSON - One of the reasons we are doing it this way is because it has developed into a position that is not the way to run an Ad Com meeting. I am assuming this role because I know a fair amount about parliamentary procedures but if it were me I

would try to come to a better set of words. I would suggest a 5 minute recess and get together to choose two better words than "alleged irregularities." We will return at 11:45 it is now 11:39 - Is this the last bit of business.

--Surely you jest!

B.MARKS - Yes it it.

C. ROBINSON - A point of privilege - some people asked for a secret ballot. Some people will count the votes.

C.ROBINSON - The Chair rules - please remember a yes vote is in favor of the motion, a no vote is against the motion, abstains should be noted.

_____ - Check the number of people voting

_____ - Count - 17 total

E.TZANAKOU - Proxies, this one gets 2 votes.

C.ROBINSON - The Chair will rule that regardless of the outcome of this vote, this matter was discussed. No other motions relevant to this matter can be made at this particular meeting because all perturbations, combinations and other sets of this have been considered. I will graciously yield the floor back to the original keeper of the keys.

GAVEL TURNED BACK TO R. MARKS

B.MARKS - I will request that what has happened here be kept in confidence. I think it is appropriate.

R.ROBINSON - I would like to make a quick motion that these tapes be stenographed. If this requires a fee.....

E. TZANAKOU - We have that...

B. MARKS - Is there a 2nd to the motion?

C. ROBINSON - She (Tzanakou) could just do it as a matter of course.

N. DECLARIS - I would like to make a statement. I would like to go on the record to say that if any member of this council would be interested, they would be welcome to see me in person or receive a copy of the financial information that I have in this packet. Moreover, I have no problem if this is discussed.

P. SIMPSON - I'm sorry, you said that I could get a copy of the finance records for the conference.

N. DECLARIS No, I said you could get a financial statement if you ask me.

P. SIMPSON - I would like to request a copy of your financial statement. I should also like to re-request that you provide as much information as possible to the audit firm.

N. DECLARIS - But if I go to the auditors, and I am not received by the auditors....

----- - Hold it. Point of Order. I think this is continuing on.

C. ROBINSON - OK, lets go on.

_____ - Results of the vote. 17 yes and 1 no.

C. ROBINSON - Clarification. (To B. Marks) You are asking us to keep this in confidence.

R. MARKS - Yes, that would be my request. Even though Dr. DeClariss mentioned it is not important to him.

C. ROBINSON - But it is an executive session.

B. MARKS - Yes, it is an executive session. May I assume we are now out of executive session.

C. ROBINSON - You just have to declare it.

R. MARKS - We are now out of executive session.

E. TZANAKOU - One clarification please. You (B. MARKS) requested that this matter be kept in confidence, but that was not important to Dr. DeClaris which means you don't care actually.

C. ROBINSON - I still feel that this is a sensitive matter which we should keep confidential.

R. EBERHART - All Executive Committee's are confidential.

N. DECLARIS - Any person in this committee who would like to contact me, I will give them any details they want including seeing the records but I am not departing from the records until my legal council says so. Is that clear?

E. TZANAKOU - Pat requested that he have a copy of the financial statements.

P. SIMPSON - Any financial information that you have Nick, I can request it but you don't have to give it to me.

N. DECLARIS - If you will call me tomorrow...

R. MARKS - Point of order- Let's move on. We have some items of new business.



IJCNN 89
INTERNATIONAL
JOINT CONFERENCE
ON NEURAL NETWORKS
3770 Tinsy Street
San Diego, CA 92121
TEL. (619) 453-6222 FAX: (619) 433-7930

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Attachment I

Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society

June 22, 1989

Dr. Robert Marks, Chairman
IEEE Neural Networks Committee
Washington Sheraton Hotel
Washington, D. C.

Dear Dr. Marks,

We are writing to inform you of the status of the 1989 IJCNN. We have been informed that the official organizational structure is partitioned into the financial and non-financial elements. The non-financial elements consist of the generation of a budget and the logistical functioning of the conference. Since these non-financial elements were completed as of June 22, 1989, and since we have no responsibility whatsoever for the financial aspects (in particular, the closing of the books and the final audit), we have discharged our obligation to the conference.

We thank you for the opportunity to have been of service to the neural network community.

Very truly yours,

Al Stubberud

Wes Snyder

cc: Russ Eberhart
Troy Nagle

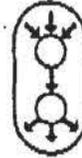
SHERATON WASHINGTON, WASHINGTON D.C.

June 18-22, 1989

Robert J. Marks II Library Archive



NEURAL NETWORKS



Robert J. Marks II, Chairman
IEEE Neural Networks Committee
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990: FAX (206) 543-3842
marks@blake.acs.washington.edu

10-19-98

Dr. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759
FAX:(301) 328-8013

Dear Nick:

The checks you recently mailed to me have been forwarded to the INNS and the NNC - as appropriate. I have also adhered to your request to forward to Jean McClausland the check for her fee.

The officers of the NNC and Dr. Bernard Widrow, President of the INNS, have agreed on a procedure for the auditing of the 1989 IJCNN. Details of this procedure are in the documents enclosed.

Thank you for your call today updating me on the progress of your committee's audit of the conference. The additional delay in the submission of your report is unfortunate.

I request that any suggestions you have for improving financial procedures of future conferences be submitted to Bob Newcomb, Chair of the *IJCNN Oversight Committee* (IOC), for possible consideration by the IOC. Any improprieties concerning the conference of which you are aware should, of course, be documented in your report and communicated to *Coopers & Lybrand* during their audit of the conference.

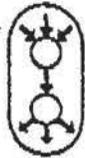
Sincerely,

A handwritten signature in cursive script that reads "Robert J. Marks II".

Robert J. Marks II, Chair
IEEE Neural Networks Committee

cc: Dr. Irv Engleson, IEEE

There are three pages in this FAX transmission. Originals are being sent by surface mail.



NEURAL NETWORKS

Robert J. Marks II, Chairman
IEEE Neural Networks Committee (NNC)
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990; FAX (206) 543-3842
marks@blake.acs.washington.edu

10-17-89

Prof. Bernard Widrow, President
International Neural Network Society
Department of Electrical Engineering, Stanford University
Stanford, CA 94305

Dear Bernie:

I am delighted to enclose a check for \$97,000 made to the INNS from this summer's IJCNN. As I discussed with you on the phone, the check is not signed by the required two signatures. Prof. DeClaris has offered to sign the check once it reaches the Maryland bank. I have, however, no objection to your requesting that Dr. Irv Engelson at IEEE headquarters be the second signature. For your information, his address is

Dr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3850 (O)
FAX: (201) 562-1571

I also propose the following for handling those issues that remain concerning the conference:

- ◆ Dr. Engelson initiate an audit of the 1989 *International Joint Conference on Neural Networks* using the accounting firm of *Coopers and Lybrand*. The Officers of the NNC have approved this action.
- ◆ The fee for the audit be taken from the surplus of the conference.
- ◆ Maureen Caudill will represent the INNS in the audit to what ever extent appropriate and the NNC will be represented by Russ Eberhart, NNC Treasurer.
- ◆ The INNS and NNC will retain a total of \$60,000 each from the surplus thusfar returned. The remainder of the surplus will be placed in an account for the purpose of paying any outstanding conference expenses. The details of the account location and management are delegated to Maureen Caudill and Russ Eberhart.
- ◆ At the end of the audit by *Coopers and Lybrand*, any remaining balance in the conference account will be divided equally between the NNC and the INNS. The account will be closed no later than December 22, 1989.

Sincerely,


Robert J. Marks II, Chair
IEEE Neural Networks Committee

I have received check #298 for \$97,000 from the *International Joint Neural Network Conference* account at the Equitable Bank in Baltimore, Maryland made to *International Neural Networks Society* and signed by Jean McClausland only. Furthermore, I hereby approve the procedure described above for the handling of the financial matters of the IJCNN.

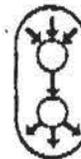
10/17/89
date


Bernard Widrow, President
International Neural Networks Society

cc: Prof. DeClaris, Irv Engelson, Russ Eberhart, Maureen Caudill



NEURAL NETWORKS



Robert J. Marks II, Chairman
IEEE Neural Networks Committee
UNIVERSITY OF WASHINGTON, FT-10
DEPT. OF ELECTRICAL ENGINEERING
SEATTLE, WASHINGTON 98195 USA
(206) 543-6990: FAX (206) 543-3842
Messages (206) 543-2150: Home (206) 776-8995
marks@blake.acs.washington.edu

10-19-89

Dr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3850 (O)

Dear Irv:

I have received three checks from Nick DeClaris from the surplus of the 1989 *International Conference on Neural Networks (IJCNN)*:

#	amount	bank	payable to:
1	\$15,882.43	San Diego	NNC
2	\$78,117.57	Baltimore	NNC
3	\$97,000.00	Baltimore	INNS

where NNC is the *IEEE Neural Networks Committee* and INNS, the *International Neural Networks Society*, is the co-sponsor of the IJCNN. The INNS is to receive 50% of the conference surplus.

Checks #1 and 2 were sent to Mel Olken for deposit in the NNC account at IEEE. Check #3 was not signed by the required two conference officers. Dr. DeClaris has contacted the Maryland Bank and has offered to sign the check when it arrives there. As you can see in the attached letter to Bernard Widrow, INNS President, the INNS prefers that you provide the second signature.

I request that you initiate an audit of the subject conference using the firm of *Coopers and Lybrand*. This request has been approved by the officers of the NNC (Russ Eberhart, Treasurer and Prof. Evangelia Tzanakou, Treasurer). Dr. Widrow has also approved this procedure.

Sincerely,

Robert J. Marks II, Chair
IEEE Neural Networks Committee

- cc:
- Prof. N. DeClaris, IJCNN
 - Dr. Russ Eberhart, NNC Treasurer
 - Prof. E. Tzanakou, NNC Secretary
 - Ms. Laura Jobmann, IEEE Conference Services
 - Dr. Mel Olken, IEEE
 - Prof. R.W. Newcomb, IOC Chair

IEEE NEURAL NETWORKS COUNCIL

Russell C. Eberhart, Ph.D.
Vice President
Telephone: 301-953-5037
Fax: 301-953-1093
E-mail: rce1@aplvm.bitnet

Please reply to:
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, Maryland 20707 U.S.A.

March 20, 1990

Dr. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759

Dear Dr. DeClaris:

The IEEE Neural Networks Council (NNC) has retained the firm of Coopers & Lybrand (C&L) to conduct the required audit of the 1989 International Joint Conference on Neural Networks, held in Washington, D. C., for which you were Finance Chairman. The audit will be done by the San Diego office of C&L. The NNC recognizes the significant conference-related work you have already done, and will appreciate your full cooperation with the audit.

Very truly yours,

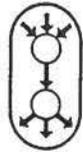


Russell C. Eberhart

cc:RJMarks, II



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Hill Williams, Science Reporter
The Seattle Times
Fairview Ave. N. & John St.
P.O. Box 70
Seattle, WA 98111

Dear Mr. Williams,

I enjoyed talking to you at the IJCNN. Enclosed is material that explains artificial neural networks quite well. I've also enclosed material describing local neural network activities. I hope you find it useful.

If I can be of further assistance, please call me. My home phone is 776-8995.

I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

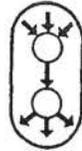
Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Jennifer Humphries, IJCNN '91

✓ file



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Dr. George Lendaris, Finance Chair
'91 Seattle IJCNN
FAX 503-725-4882

Dear George,

I wanted to quickly follow up on our phone conversation. The Agreement between the INNS and the Council states that

SPEAKERS (EXCEPT FOR TUTORIAL SPEAKERS) ARE NOT COMPENSATED FOR THEIR PRESENTATIONS. PLENARY SPEAKERS WILL NORMALLY HAVE THEIR TRAVEL EXPENSES PAID. IN ADDITION, THE GENERAL, CHAIR(S), THE PROGRAM CHAIR(S), AND THE FINANCE CHAIR(S) CAN HAVE THEIR TRAVEL EXPENSES PAID. THE CONFERENCE COMMITTEE WILL SET SPECIFIC ARRANGEMENTS IN ACCORDANCE WITH THE POLICIES OF BOTH INNS AND IEEE. COMPENSATION FOR TUTORIAL SPEAKERS SHALL BE CONSISTENT WITH THE POLICIES OF IEEE AND INNS. INVITED SPEAKERS MAY HAVE THEIR TRAVEL EXPENSES PAID. THE NUMBER OF INVITED SPEAKERS WHO HAVE THEIR EXPENSES PAID SHOULD IN NO CASE EXCEED 1% OF THE BEST ESTIMATE OF THE NUMBER OF CONFERENCE REGISTRATIONS. ALL OTHER EXPENSES REIMBURSEMENTS ARE EXCLUDED UNLESS SPECIFICALLY COVERED BY A LINE ITEM IN THE APPROVED CONFERENCE BUDGET. REGISTRATION FEES FOR KEYNOTE AND PLENARY SPEAKERS ARE WAIVED. REGISTRATION FEES FOR ALL PERSONS WHOSE TRAVEL EXPENSES ARE REIMBURSED BY THE CONFERENCE WILL BE AT THE STUDENT RATE.

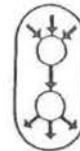
As I have informed Dr. Werbos by previous correspondance, the Council has approved a budget with 1250 estimated attendees. Therefore, according to the Agreement, no more that 12 invited speakers can have their way paid. These, and all other expenses must, of course, be included in the budget approved by both the INNS and the IEEE. Note that the Agreement allows for reduction, but not waiving of the registration fee. Deviations from the Agreement can be inacted by joint approval of both the NNC and INNS.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: David Rumelhart, IJCNN '91 Chair bc: Evangelia Tzanakou, NNC Secretary
Paul Werbos, INNS President Russ Eberhart, NNC Vice President
Roy Nutter, IOC Chair Patrick K. Simpson, NNC Treasurer
Mary Ann DeWald, IEEE Conference Services

Sill
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



TRANSACTIONS ON NEURAL NETWORKS

Msrch 14, 1991

Bob, thanks for the letter fo support for Prof. Widrow.

A handwritten signature in cursive script, appearing to read 'H. Rauch'.

HERBERT E. RAUCH
Lockheed 92-20/254 E
3251 Hanover Street
Palo Alto, CA 94304 U.S.A.

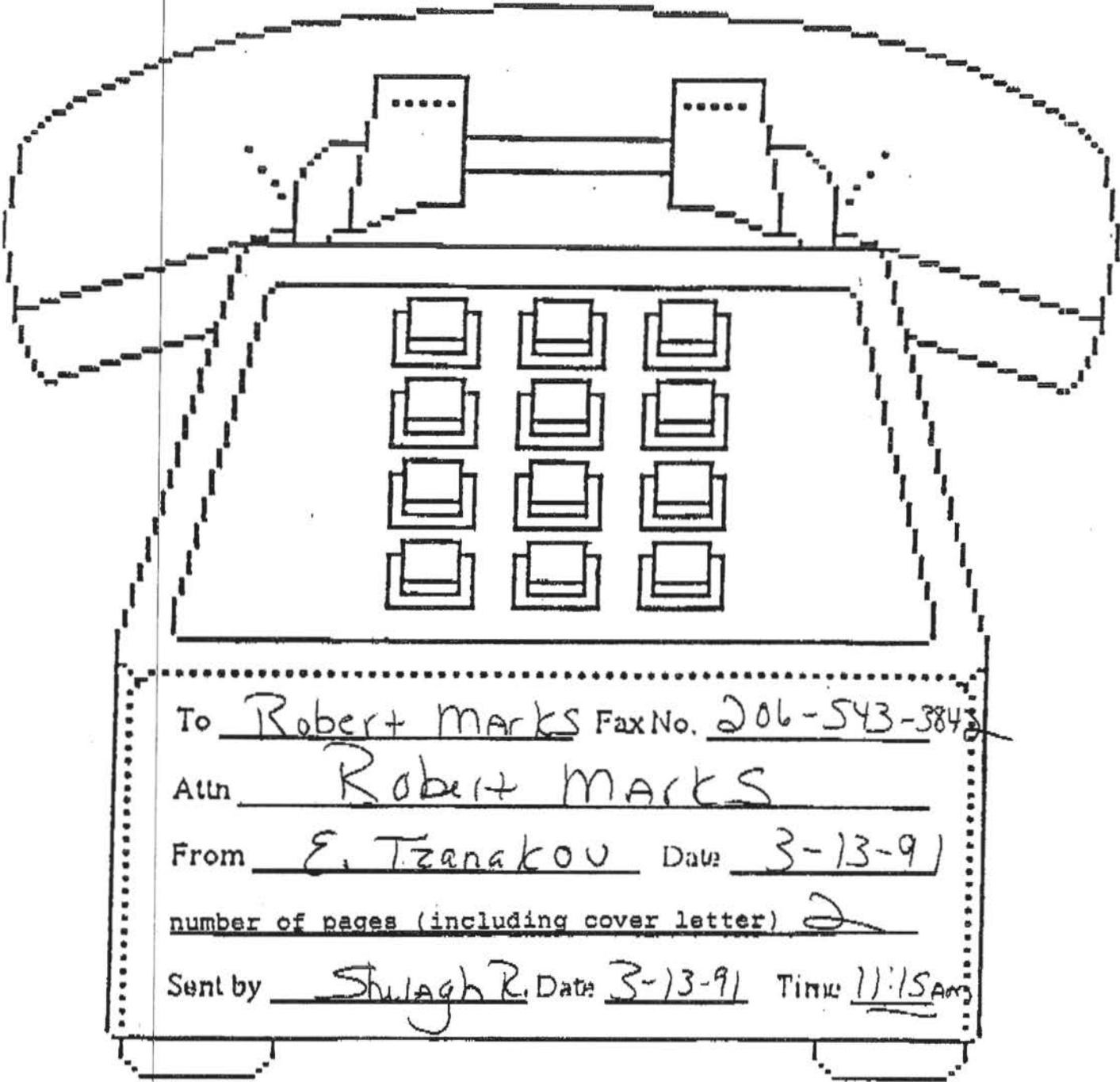
92-30/281

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Department of Biomedical Engineering • College of Engineering
P.O. Box 909 • Piscataway • New Jersey 08855-0909 • 201/932-3155

FAX # (201) 932-3753

Fax Cover Letter



To Robert Marks Fax No. 206-543-3842

Attn Robert Marks

From E. Tzanakou Date: 3-13-91

number of pages (including cover letter) 2

Sent by Shelagh R. Date: 3-13-91 Time: 11:15 AM

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

Department of Biomedical Engineering • College of Engineering
P.O. Box 909 • Piscataway • New Jersey 08855-0909 • 908/932-3155 • FAX: 908/932-3753

March 13, 1991

TO: Robert Marks
FROM: E. Tzanakou 
SUBJECT: TAB Symposium in Mexico

My two suggestions on delegates for the Symposium would be

- (1) Pat Simpson
- (2) Mike Roth

They both deserve it. So why not send them both?

Litsa

Mar 11 15:39 1991 standard input Page 1

From marks@u.washington.edu Mon Mar 11 14:51:41 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA08150; Mon, 11 Mar 91 14:51:38 PST
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA27032; Mon, 11 Mar 91 14:51:05 -0800
Date: Mon, 11 Mar 91 14:51:05 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9103112251.AA27032@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Subject: letter
Cc: marks@milton.u.washington.edu
Status: R

Ruth: I can't get this Japanese e-mail to work.

Please type, sign & FAX the letter that follows:

Prof. Hiroyuki Mori
FAX 81-44-900-5075

Dear Dr. Mori:

I need your help.

There will be much interest in the foundations of neural networks at the upcoming Forum on Applications of Neural Networks to Power Systems in Seattle this Summer. I have been asked by the Forum Chair, Mohamed El-Sharkawi, to organize a short 4 hour tutorial. Tentatively, the course will be given by you, Bob Thomas and me.

The purpose of this tutorial is to introduce the practicing engineer to the most pc

Introduction	5 min	Marks
History of Neural Networks	10 min	Marks
Neural Network Paradigms		
Classification &		
Regression Machines	15 min	Marks
The Perceptron	10 min	Thomas
The Layered Perceptron	50 min	Thomas
Coffee	5 min	
Hopfield Neural Networks	45 min	Thomas
Kohonen Neural Networks	40 min	Mori
Adaptive Resonance Theory	30 min	Mori
Applications in Power - Overview	30 min	Mori

*Popular neural net
at models.*

If you agree, I would need to have copies of the overheads you will be

Mar 11 15:39 1991 standard input Page 2

using in the tutorial by June 15.

Your participation will result in the waiving of the Forum registration fees. I will also attempt to leverage a modest honorarium from the forum, but cannot yet guarantee this.

I hope you will be willing to participate.

Best regards,

Bob Marks

Sincerely,

Robert J. Marks II, Tutorial Chair

(Use UW letterhead)

Thanks!

Bob

Mar 11 15:41 1991 standard input Page 1

From marks@u.washington.edu Mon Mar 11 11:22:04 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA08044; Mon, 11 Mar 91 11:22:02 PST
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA24853; Mon, 11 Mar 91 11:21:31 -0800
Date: Mon, 11 Mar 91 11:21:31 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9103111921.AA24853@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Subject: address
Cc: marks@milton.u.washington.edu
Status: R

Ruth:

Please address an envelope (regular size) as is requested in the following letter. Put in my box & I'll return it with something to put in it.

Bob

From ashley@spectrum.cs.unsw.OZ.AU Mon Mar 11 04:56:12 1991
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA07285; Mon, 11 Mar 91 04:56:09 -C
Received: from munnari.OZ.AU by blake.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA02921; Mon, 11 Mar 91 04:56:01 -C
Received: from spectrum.cs.unsw.oz (via metro) by munnari.oz.au with SunIII
id AA01996; Mon, 11 Mar 1991 22:55:54 +1000 (from ashley@spectrum.c
Message-Id: <9103111255.1996@munnari.oz.au>
From: ashley@spectrum.cs.unsw.oz.au (Ashley Aitken)
Subject: IJCNN'91 SINGAPORE REGISTRATION FORM : PLEASE SEND!
To: marks@blake.u.washington.edu
Date: Mon, 11 Mar 91 22:24:37 aest
X-Mailer: ELM [version 2.3 PL11]

Hello Dr Marks,

Could you please arrange for full details regarding conference registration and call for papers for IJCNN'91 to be sent to me at the addresss given below as soon as possible.

Thanks in advance for your time and effort,
Regards,
Ashley Aitken.

--

E-MAIL ashley@spectrum.cs.unsw.oz.au (Inter/AAR)Net
{uunet,ukc,ubc-vision}!munnari!spectrum.cs.unsw.oz!ashley UUCP
ashley@spectrum.cs.unsw.oz@australia CSnet
ashley@spectrum.cs.unsw.oz@uk.ac.ukc JANet

POSTAL Academic Address: Residential Address:
School of EE and CS, (Mech Eng Rm 447) c/o Basser College, (Flat 7
University of New South Wales, The Kensington Colleges,

Mar 11 15:41 1991 standard input Page 2

Box 1, PO KENSINGTON, N.S.W., 2033,
AUSTRALIA.
Ph. (02) 697-5378 Fx. (02) 662-2087

Box 24, PO KENSINGTON, 3033.
AUSTRALIA.
Ph. Aust (02) 663-8117

On Darwinian Evolution "It is all too obviously correct for the people who are
enchanted by its power of demystification, while others will forever invent
difficulties and counterarguments." Valentino Braitenberg

**AT&T Bell Laboratories
Whippany Road
Whippany, New Jersey 07981**

DATE: 3/11/91

TO: R-J. Marks II
Electr. Eng, FT-10
Univ. of Wash., Seattle

LOCATION: _____

EXTENSION: _____

TELECOPIER NO: 206-543-3842

NO. OF PAGES: _____
(Incl. cover)

FROM: S. V. Kartalopoulos

LOCATION: _____

EXTENSION: _____

**FAX Cornet 232-6346
Commercial 201-386-6346
Contact:**

MESSAGE:

MAR 11 '91 14:49 BELL LABS-WH

P. 2

AT&T Bell Laboratories
Rm 1E-220A
1 Whippany Rd
Whippany, NJ 07981
Phone: (201) 386-4289
Fax: (201) 386-6346
March 11, 1991

Professor Edgar Sanchez-Sinensio, Chairman
IEEE Circuits & System Society
Department of Electrical Engineering
Texas A&M University
fax: 409-845-7161

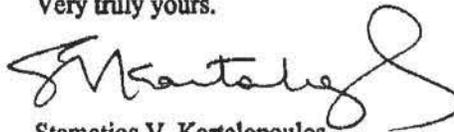
Dear Professor Sanchez,

Per our telephone conversation on March 11, the IEEE Neural Networks Council is interested to co-sponsor with the Circuits & Systems Society the Reprint Book entitled Neural Networks I edited by you and Dr. Clifford Lau. Dr. Cl. Lau and Prof. R. Newcomb (as the past chairman of C&S) have already expressed their agreement provided that you also agree. In addition, IEEE (Dudley Kay- IEEE Press Executive Editor) consents to having more than one sponsor for this book.

If you agree with the NNC's proposed co-sponsorship please let me know so that we may proceed with the necessary paperwork. As the chairman of C&S, you may also propose a royalty split unless you'd like to discuss it directly with Prof. R. Marks, II, NNC President.

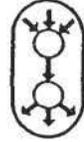
If you have any questions, please call me.

Very truly yours.



Stamatios V. Kartalopoulos
NNC Liaison to IEEE Press

CC:
Robert J. Marks, II, NNC President
Russ Eberhart, NNC Vice President
Toshio Fukuda, NNC Publications Chair
Eangelia Micheli-Tzanakou, NNC secretary



NEURAL NETWORKS COUNCIL

Russell Eberhart
Vice President

PLEASE REPLY TO:
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20723 USA
Tel: (301) 953-5037
FAX: (301) 953-1093
e-mail: rce1@aplvm.bitnet

March 18, 1991

E. A. Parrish
Irv Engelson
Technical Activities
IEEE
445 Hoes Lane
Piscataway, NJ 08855-1331

Dear Gentlemen:

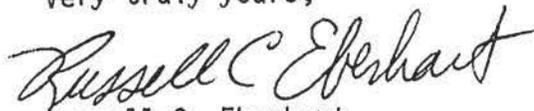
The Neural Networks Council hereby designates the following two participants and one alternate for the Mexico Symposium:

Participants: Dr. Mike Roth
The Johns Hopkins University Applied Physics Lab.
Johns Hopkins Road
Laurel, MD 20723-6099
Telephone: 301-953-6543
FAX: 301-953-1093

Dr. Roy Nutter
West Virginia University
821 Electrical Engineering
PO Box 6101
Morgantown, WV 26506
Telephone: 304-293-6371, ext. 510
FAX: 304-293-5024

Alternate: Mr. Patrick Simpson
General Dynamics Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128
Telephone: 619-573-2417
FAX: 619-573-2266

Very truly yours,


Russell C. Eberhart

A handwritten signature in cursive, possibly reading 'file' or a similar name, with a long horizontal stroke at the bottom.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Dr. George Landais
Name of Firm: _____
Location of Firm: Portland, OR
Facsimile Telephone Number: 503-725-488
From: Robert J Marks II Phone: 543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 3/18/91 Time: 2⁴⁰

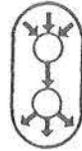
Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Dr. George Lendaris, Finance Chair
'91 Seattle IJCNN
FAX 503-725-4882

Dear George,

I wanted to quickly follow up on our phone conversation. The Agreement between the INNS and the Council states that

SPEAKERS (EXCEPT FOR TUTORIAL SPEAKERS) ARE NOT COMPENSATED FOR THEIR PRESENTATIONS. PLENARY SPEAKERS WILL NORMALLY HAVE THEIR TRAVEL EXPENSES PAID. IN ADDITION, THE GENERAL CHAIR(S), THE PROGRAM CHAIR(S), AND THE FINANCE CHAIR(S) CAN HAVE THEIR TRAVEL EXPENSES PAID. THE CONFERENCE COMMITTEE WILL SET SPECIFIC ARRANGEMENTS IN ACCORDANCE WITH THE POLICIES OF BOTH INNS AND IEEE. COMPENSATION FOR TUTORIAL SPEAKERS SHALL BE CONSISTENT WITH THE POLICIES OF IEEE AND INNS. INVITED SPEAKERS MAY HAVE THEIR TRAVEL EXPENSES PAID. THE NUMBER OF INVITED SPEAKERS WHO HAVE THEIR EXPENSES PAID SHOULD IN NO CASE EXCEED 1% OF THE BEST ESTIMATE OF THE NUMBER OF CONFERENCE REGISTRATIONS. ALL OTHER EXPENSES REIMBURSEMENTS ARE EXCLUDED UNLESS SPECIFICALLY COVERED BY A LINE ITEM IN THE APPROVED CONFERENCE BUDGET. REGISTRATION FEES FOR KEYNOTE AND PLENARY SPEAKERS ARE WAIVED. REGISTRATION FEES FOR ALL PERSONS WHOSE TRAVEL EXPENSES ARE REIMBURSED BY THE CONFERENCE WILL BE AT THE STUDENT RATE.

As I have informed Dr. Werbos by previous correspondance, the Council has approved a budget with 1250 estimated attendees. Therefore, according to the Agreement, no more that 12 invited speakers can have their way paid. These, and all other expenses must, of course, be included in the budget approved by both the INNS and the IEEE. Note that the Agreement allows for reduction, but not waiving of the registration fee. Deviations from the Agreement can be inacted by joint approval of both the NNC and INNS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: David Rumelhart, IJCNN '91 Chair
Paul Werbos, INNS President
Roy Nutter, IOC Chair

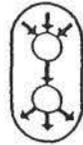
bc:

Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Patrick K. Simpson, NNC Treasurer
Mary Ann DeWald, IEEE Conference Services

Ruth,
Please FAX
mail cc's ^{to bc's} no need.
as always,
file copy
- Bob -



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Nicholas DeClaris
8518 Beauford Drive
Fulton, Maryland 20759

Dear Nick:

I have been directed by the Neural Networks Council AdCom to refer all aspects of the 1989 IJCNN audit to the Technical Activities Department at IEEE. As you can see by the attached correspondence to Dr. Engelson, I have done so.

To the best of my knowledge, approximately \$2,000 in conference surplus has yet to be returned to the Council. I believe that you are still in possession of a check for this surplus. If you have not already done so, I request that you send the check directly to Dr. Irving Engelson at IEEE. I request that you do so before April 15.

Cordially,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Dr. Irving Engelson, IEEE Technical Activities Dept.

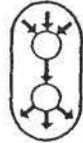
Attachment

bc: Russ Eberhart, NNC Vice President
Patrick Simpson, NNC Treasurer

File



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 12, 1991

Patrick K. Simpson
IEEE Council on Neural Networks
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

The attached contract for the services of Rosalyn G. Snyder is approved.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

Attachment

cc: Toshio Fukuda, Publications Committee Chair
Wes Snyder, Newsletter Editor
Evangelia Tzanakou, Secretary

✓ *Sile*

IEEE

NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

*Return
to*

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-8990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 4, 1991

Charles J. Robinson, Production Editor
Neural Networks Council Newsletter
Hines VA Rehabilitation R&D Center
Room 1A-202A
P.O. Box 20
Hines, Illinois 60141

Dear Charlie:

Please sign and FAX copies to Roz and me.

Best regards,

Bob

Robert J. Marks II, President
Neural Networks Council

Enclosure

RJM:rw

3/11

Done

CR

*This page and one
following*

*Return
FAX TO*

*Bob Marks
at above address,*

Notify MARKS x6990



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 8, 1991

James Bezdek, Chair
International Conference of Fuzzy Systems
Nystul Professor - Computer Science
The University of West Florida,
11000 University Parkway
Pensacola, Florida 32514-5750

Dear Jim:

Another coordinating Society. Please note the request for materials.

Each of these IEEE Societies publishes a magazine and/or newsletter.
Each could be a superb publicity resource.

Best regards,

A handwritten signature in cursive that reads "Bob" with a small "II" below it.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Nomi Feldman, Meeting Management
Patrick K. Simpson, International Conference
of Fuzzy Systems Steering Committee
Russ Eberhart, NNC Vice President

file



LASERS AND ELECTRO-OPTICS SOCIETY



EXECUTIVE OFFICE

Executive Officer: (908) 562-3891
Society Services: (908) 562-3892/3893
Conference Management: (908) 562-3895/3896

PLEASE REPLY TO:

IEEE/LEOS
445 Hoes Lane
P. O. Box 1331
Piscataway, NJ 08855-1331 USA

Telex: 833-233
Fax: (908) 562-1571/(908) 981-0027

February 28, 1991

Robert J. Marks II
President, IEEE Neural Networks Council
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195

Dear Professor Marks:

Reference is made to your letter of February 8, 1991 concerning the International Conference on Fuzzy Systems to be held in March 1992 in San Diego, CA.

As a member of the IEEE Neural Networks Council, the Lasers and Electro-Optics Society is pleased to be a Cooperating Society for this conference. As a Cooperating Society, we understand that we have no financial involvement, but will contribute to the technical content through our representatives to the Neural Networks Council, and will assist in publicity to our members. In order to list the conference in our Meetings Calendar, we will need complete details of the conference as soon as possible, including points of contact. In addition, we will need 25 copies of all promotional material for distribution. Our point-of-contact will be Wendy Rochelle, Conference Manager in the LEOS Executive Office. Wendy can be reached at (908) 562-3895.

We look forward to working with the committee for a successful conference.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob'.

Robert T. Wangemann
Executive Director

cc. M. Ettenberg
R. Jacobs
R. Alferness
K. Johnson
N. Farhat
W. Rochelle

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Bradley Dickinson
Name of Firm: Princeton University
Location of Firm: Princeton, NJ
Facsimile Telephone Number: (609) 258-3745
From: Robert J Marks II Phone: (206) 543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: _____ Time: _____

Comments: _____

Please call (_____) _____ the pages.
Department _____
① UW^{general} access
② IEEE NNC Gen Cones
R (206) 543-3842

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
Telephone: (206) 543-6990 (office), 543-6061 (secretary),
543-2150 (main office), 776-8995 (home), 543-3842 (FAX).
marks@milton.u.washington.edu

3-2-91

Bradley Dickinson, Chair
IEEE Neural Networks Council Awards Committee
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
FAX: (609) 258-3745

Dear Brad,

I hereby second the nomination of Bernard Widrow as a recipient of the *Neural Networks Council Pioneer Award*.

Bernie Widrow was predicting weather, recognizing speech and balancing brooms with neural networks in the early '60's. Widrow's ADALINE and MADILINE were among the first artificial neural network models. In this early period of the development of artificial neural networks, Bernard Widrow is one of but two engineering researchers whose work has survived as a fundamental foundation of today's neural network models.* Indeed, the work also provided a foundation for the field of adaptive systems. Recognizing this, press accounts concerning Dr. Widrow have dubbed him 'The Obi-Wan Kanobe of neural nets' and 'Mr. Neural Networks'. The prestige and pioneering contribution suggested by these titles are well deserved.

The description of the requirements for the NNC's *Pioneer Award* fit Dr. Widrow's credentials quite closely. I can think of no person living today who is more worthy to receive this award.

Sincerely,



Robert J. Marks II
Professor

cc: Herb Rauch

* The other is the late Frank Rosenblatt.

file

Princeton University

School of Engineering and Applied Science

The Engineering Quadrangle
Princeton, New Jersey 08544-5263
Telephone: 609/258-2916
Facsimile: 609/258-6744

Bradley W. Dickinson
Associate Dean

January 28, 1991

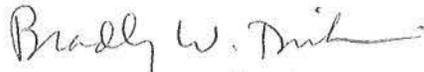
Dear NNC AdCom member:

As I mentioned at the January 26 AdCom meeting, I want to encourage you to submit nominations for the awards that the Council will be making in 1991, particularly the Pioneer Award. Enclosed is a copy of the publicity for the awards that appears in the January 1991 issue of the Transactions on Neural Networks.

For the Pioneer Award, the nomination should take the form of a detailed description of the nominee's contributions (made prior to 1976!) and should be accompanied by supporting material including a resume of the nominee and letters of reference from people who can evaluate the contributions. Since the deadline for receipt of nominations is March 1, 1991, your prompt consideration of this matter is necessary.

Please contact me for further information about the awards. Thank you for your help in seeing that deserving candidates are nominated.

Sincerely Yours,



Bradley W. Dickinson
NNC Award Committee Chair



Editorial

The Second Year



This issue marks the end of my one-year term as Editor of the IEEE TRANSACTIONS ON NEURAL NETWORKS. My initial commitment was for one year, and although it is tempting to continue, the time has come to step down.

I am pleased to announce the appointment of Michael Roth of Johns Hopkins University as the new Editor. As you know, during the past year Mike has done an excellent job as Associate Editor, Book Reviews, and as a Technical Associate Editor. From now on this TRANSACTIONS will be in Mike's very capa-

ble hands, and all PAPER and BRIEF PAPER submittals should go to him as explained in the Information for Authors on the inside back cover.

I extend my sincere appreciation to Panos Antsaklis and Tony Michel, Associate Editors, Letters, who together have made the Letters section of the TRANSACTIONS an exciting opportunity for rapid publication, as you can see by the nine Letters in this issue. Panos is stepping down as Associate Editor, Letters, although he will continue as Technical Associate Editor. Michael Lemmon is the new Associate Editor, Letters, and all Letter submittals should go to him, as explained in the Information for Authors on the inside back cover.

I send my thanks to the Associate Editors, the authors, and all the individuals who have worked with me to help make this TRANSACTIONS such a success. In particular, I wish to thank Valerie Cammarata of IEEE Publishing Services, who has done an outstanding job as Managing Editor of the TRANSACTIONS, and Annie Hirs, who was Associate Editor for the first two issues.

Finally, I thank Lockheed Palo Alto Research Laboratory for its support. As my concluding action as outgoing Editor, I convey my best wishes to all of the people who have contributed so much to the success of the TRANSACTIONS.

HERBERT E. RAUCH
Editor

Neural Networks Council Awards

The IEEE Neural Networks Council is soliciting nominations for two new awards. Pending final approval by the IEEE, it is planned to present these awards for the first time at the 1991 International Joint Conference on Neural Networks, to be held July 8-12, 1991, in Seattle, Washington. Nominations for these awards should be submitted in writing according to the following instructions. Questions and preliminary inquiries about the awards should be directed to Prof. Bradley W. Dickinson, NNC Awards Chair; telephone: (609)-258-4644; electronic mail: bradley@ivy.princeton.edu.

Outstanding Paper Award

The IEEE TRANSACTIONS ON NEURAL NETWORKS Outstanding Paper Award is an award of \$500 for the outstanding paper published in the IEEE TRANSACTIONS ON NEURAL NETWORKS in the previous two-year period. For 1991, all papers published in 1990 (volume 1) in the TRANSACTIONS are eligible. For a paper with multiple authors, the award will be shared by the coauthors.

Nominations must include a written statement describing the outstanding characteristics of the paper. The deadline for receipt of nominations is March 31, 1991. Nominations should be sent to Prof. Bradley W. Dickinson, NNC Awards Chair,

Department of Electrical Engineering, Princeton University,
Princeton, NJ 08544-5263.

Pioneer Award

The IEEE Neural Networks Council Pioneer Award has been established to recognize and honor the vision of those people whose efforts resulted in significant contributions to the early concepts and developments in the field of neural networks. Up to three awards may be presented annually to outstanding individuals whose main contribution was made at least 15 years earlier. The recognition is engraved on the Neural Networks Pioneer Medal specially struck for the Council.

Selection of Pioneer Medalists will be based on nomination letters received by the Pioneer Awards Committee. All who meet the contribution requirements are eligible, and anyone can nominate. The award is not approved posthumously. Written nomination letters must include a detailed description of the nominee's contributions and must be accompanied by full supporting documentation. For the 1991 Pioneer Award, nominations must be received by March 1, 1991. Nominations should be sent to Prof. Bradley W. Dickinson, NNC Pioneer Award Chair, Department of Electrical Engineering, Princeton University, Princeton, NJ 08544-5263.

BRADLEY W. DICKINSON
Awards Chair

Princeton University

School of Engineering and Applied Science
The Engineering Quadrangle
Princeton, New Jersey 08544-5263
Telephone: 609/258-2916
Facsimile: 609/258-6744

Bradley W. Dickinson
Associate Dean

January 28, 1991

Prof. Evangelia Tzanakou
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08854

Dear Evangelia,

Enclosed is a written report covering my presentation as Awards Committee Chair at the January 26, 1991 NNC AdCom meeting.

Sincerely,



Bradley W. Dickinson
NNC Awards Committee Chair

emv

cc: Prof. Robert Marks II

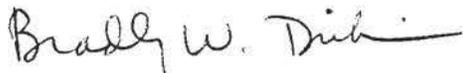
NNC Awards Committee Report
January 26, 1991

The Awards Committee is preparing for its 1991 duties, the evaluation of nominations for its two new awards, the Outstanding Paper Award for papers appearing in the 1990 volume of the Transactions on Neural Networks, and the Pioneer Award (up to three may be given in any year). Publicity for these awards appears in the January 1991 Transactions; the awards received IEEE approval during the past Fall. Invitations to join the Awards Committee have been accepted by Dr. Richard Lippmann and Dr. Charles Robinson; other invitations are pending. A design for the Pioneer Award Medal will be completed in the next few weeks.

The Fellow Evaluation Subcommittee of the Awards Committee has been established. I will chair the subcommittee whose membership will include Robert Newcomb, Terry Fine, Gyan Agarwal, and George Cook; two other IEEE Fellows have also been invited to serve.

In connection with Fellow Nominations, the AdCom is reminded that IEEE members should be encouraged to apply for promotion to Senior Member Grade, since this is one requirement of Fellow nominees. Applications for promotion to Senior Member Grade are available from IEEE Member Services, (908) 981-0060.

Respectfully submitted,



Bradley W. Dickinson
NNC Awards Committee Chair

Editorial

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HERBERT E. RAUCH
Editor

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Department of Electrical Engineering, Princeton University,
Princeton, NJ 08544-5263.

Pioneer Award

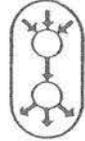
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BRADLEY W. DICKINSON
Awards Chair



NEURAL NETWORKS COUNCIL



Bradley Dickinson
Chair, Awards Committee

PLEASE REPLY TO:
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-4644
FAX: (609) 258-3745
e-mail: bradley@ivy.princeton.edu

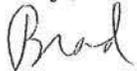
March 7, 1991

Prof. Robert J. Marks II
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Prof. ~~Marks~~, ^{Bob}

Thank you for your thoughtful letter nominating Professor Teuvo Kohonen for the IEEE Neural Networks Council Pioneer Award. I am sure the Awards Committee will find your comments helpful in its deliberations.

Sincerely,

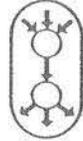


Bradley W. Dickinson
Chairman, IEEE NNC Awards Committee

BD/emv



NEURAL NETWORKS COUNCIL



Bradley Dickinson
Chair, Awards Committee

PLEASE REPLY TO:
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-4644
FAX: (609) 258-3745
e-mail: bradley@ivy.princeton.edu

March 7, 1991

Prof. Robert J. Marks II
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear ~~Prof.~~ Marks,

Bob

Thank you for your thoughtful letter supporting the nomination of Professor Stephen Grossberg for the IEEE Neural Networks Council Pioneer Award. I am sure the Awards Committee will find your comments helpful in its deliberations.

Sincerely,

Brad

Bradley W. Dickinson
Chairman, IEEE NNC Awards Committee

BD/emv

File
re Singapore Budget

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Patricia Simpson
Name of Firm: General Dynamics
Location of Firm: San Diego CA
Facsimile Telephone Number: (619) 573-7400
From: B Marks Phone: 206-543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 3 pages. *plus letter sent a few minutes ago*

Date: 3/7 Time: _____

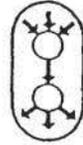
Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 7, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

Responsibility of approval of the attached Singapore budget has been delegated to ExCom. Please send your vote by FAX to me.

Sincerely,

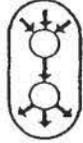
A handwritten signature in cursive script that reads "Bob Marks".

Robert J. Marks II, President
IEEE Neural Networks Council

Attachment

RJM:rw

FAX: (619) 573-7400



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 7, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

Responsibility of approval of the attached Singapore budget has been delegated to ExCom. Please send your vote by FAX to me.

Sincerely,

A handwritten signature in cursive that reads "Bob" followed by a flourish.

Robert J. Marks II, President
IEEE Neural Networks Council

Attachment

RJM:rw

FAX: (619) 573-7400

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IJCNN 1991 SINGAPORE BUDGET

6/90

	750 attendees (breakeven)	900 attendees (more likely)
INCOME		
Registration fees		
Full registrations at \$300	\$210,000	\$247,500
Students at \$100	5,000	7,500
Publication sales at \$90	20,000	25,000
IEEE Book Broker sales of Proc.	10,000	15,000
Exhibits (contract)	10,000	10,000
Tutorials (see note below)	84,375	84,375
	-----	-----
TOTAL INCOME	\$339,375	\$389,375
EXPENSES		
Promotional		
Printing call for papers	\$4,000	4,000
Printing advance program	6,000	6,000
Printing final program	3,000	3,000
Mailing labels from IEEE	1,000	1,000
Mailing call for papers	5,000	5,000
Mailing advance program	10,000	10,000
Advertising	5,000	7,000
	-----	-----
Subtotal	34,000	36,000
Conference Publications		
Printing of authors' kits	500	500
Mailing of authors' kits	2,000	2,000
Printing of Proceedings	45,000	45,000
Shipping costs	3,500	4,000
	-----	-----
Subtotal	50,500	51,500
Administrative		
Management fee at \$40 per delegate	30,000	36,000
Secretarial support on site	500	500
Stationary	500	500
Telecommunications	1,000	1,000
AV equipment rental	2,000	2,000
Committee expenses	9,000	9,000
Insurance	1,000	1,000
	-----	-----
Subtotal	44,000	50,000
Local arrangements		
Conference venue (lunch and two teas at \$110/delegate for 3 days)	77,000	99,000
Banquet	35,000	45,000
	-----	-----
Subtotal	112,000	144,000
Tutorials (see note below)		
Honoraria to presenters	7,500	7,500
Travel expense reimbursement	16,500	16,500
Meeting rooms, coffee/tea, lunch	15,750	15,750
Publicity	5,000	5,000
Publications	3,000	3,000
	-----	-----
Subtotal	47,750	47,750

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

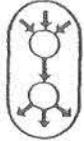
TOTAL EXPENSES	\$288,250	\$329,250
PROJECTED SURPLUS	\$51,125	\$60,125

The students receive a copy of the Proceedings, but no banquet ticket.

Tutorials: It is estimated that 450 attendees will take an average of 1.5 tutorials each, at \$125 each. There will be 10 tutorial presenters giving 15 total tutorial sessions.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

March 5, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

TO: Russ Eberhart, NNC Vice President
Toshio Fukuda, NNC Publications Chair
Patrick K. Simpson, NNC Treasurer

The attached is FYI

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob Marks'.

Robert J. Marks II, President
Neural Networks Council

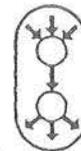
RJM:rw

Attachment

File



NEURAL NETWORKS COUNCIL



Michael W. Roth, Editor
IEEE TRANSACTIONS ON
NEURAL NETWORKS
The Johns Hopkins University
Applied Physics Laboratory
Johns Hopkins Road
Laurel, Maryland 20723-6099 USA
(301) 953-6543
Fax: (301) 953-1093

8 February 1991

Professor James C. Bezdek
Computer Science Department
University of West Florida
Pensacola, Florida 32514

Subject: Appointment as the Guest Editor for the Special
Issue on Fuzzy Systems

References: 1. Telecon between Dr. M. W. Roth and Prof. J. C.
Bezdek on 7 February 1991.

Dear Jim:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as the Guest Editor for a special issue on fuzzy systems for the IEEE Transactions on Neural Networks. This special issue is scheduled for Volume 3, Number 5 (September 1992). As we discussed, both contributions from abroad (e.g., Japan and Europe) and contributions on hardware and applications are encouraged for this special issue. If you require editorial assistance in preparing this special issue, you are authorized to appoint Guest Associate Editors at your discretion.

I wish to thank you for accepting and I look forward to working with you in the future.

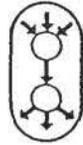
Very truly your,

Original Signed By
M. W. Roth

Dr. Michael W. Roth

cc:

Robert J. Marks, II



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 4, 1991

Dr. Cihan H. Dagli
Conference Chairman
University of Missouri-Rolla
Department of Engineering Management
223 Engineering Management Building
Rolla, MO 65401-0249

Dear Dr. Dagli:

Thank you for your letter dated February 22. Your response is deeply appreciated.

On behalf of the Neural Networks Council, I wish you a highly successful conference.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

bc: Russ Eberhart, Vice President
Pat Simpson, Treasurer

Sile



UNIVERSITY OF MISSOURI-ROLLA

Department of Engineering Management

223 Engineering Management Building
Rolla, MO 65401-0249
Telephone (314) 341-4567

February 22, 1991

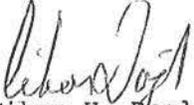
Dr. Robert J. Marks, II
Department of Electrical Engineering
FT-10
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

As a follow-up to our telephone conversation I would like to indicate that we were not aware of the exclusive rights of IEEE Neural Network Council regarding the use of words "International Conference, Neural Networks" for conferences. As we have agreed on the phone we will be using the name ANNIE'91, Artificial Neural Networks in Engineering, for the conference to be held in St. Louis on November 10-12, 1991, in all the printed material and correspondence regarding to the conference.

On behalf of the organizing committee I would like to thank you for notifying me early on this matter. We appreciate the work being done by IEEE Neural Network Council in promoting and advancing the research on Neural Networks. We would like to see ANNIE'91 to contribute to these efforts through disseminating information regarding to neural network applications in engineering.

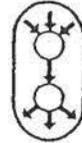
Your sincerely,


Cihan H. Dagli, Ph.D.
Conference Chairman

CD/msd



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 4, 1991

Vincent Poor, Chair
NNC Nominations Committee
Dept. of Electrical Engineering
Princeton University
Princeton, New Jersey 08544

Dear Vince:

By this letter, I hereby nominate Don Brown for Council Secretary for 1992. If Don has been nominated, please consider this letter as an enthusiastic second.

Sincerely,



Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

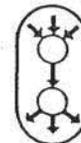
bc: Russ Eberhart, IEEE NNC Vice President
Patrick K. Simpson, IEEE NNC Treasurer

file



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

March 4, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Charles J. Robinson, Production Editor
Neural Networks Council Newsletter
Hines VA Rehabilitation R&D Center
Room 1A-202A
P.O. Box 20
Hines, Illinois 60141

Dear Charlie:

Please sign and FAX copies to Roz and me.

Best regards,

Robert J. Marks II, President
Neural Networks Council

Enclosure

RJM:rw

File

Contract for Editing Services

This agreement, made and entered into this 20th day of February 1991, by and between Rosalyn Snyder (SSN 249 80 1520) hereinafter referred to as the Managing Editor, and the Advisory Committee of the IEEE Council on Neural Networks, hereinafter referred to as the Ad Com: The Managing Editor agrees to provide the following services to the Ad Com in conjunction with the production of the Newsletter of the Society:

1. Soliciting, writing, and editing newsletter articles at the direction of and subject to the approval of the Editor appointed by the Ad Com
2. Design and layout
3. Computer Laser Printer Typesetting and production of PostScript files using her facilities
4. Dummy preparation
5. Correspondence with authors, subscribers, advertisers, IEEE administration (regarding Newsletter production), and printers
6. Soliciting and billing for advertisements

The Ad Com agrees to pay the Managing Editor at the rate of \$155.00 per page for each issue of the Newsletter. In addition the AdCom will reimburse the Managing Editor for telephone, printing (e.g. letterhead), and mailing expenses, and for actual travel expenses to attend one AdCom meeting per year. Any other reimbursable exesnes must be approved in advance b the President of the AdCom.

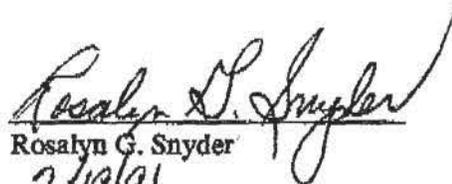
The Ad Com will be billed directly by the IEEE for printing and mailing of each issue of the Newsletter.

Approved:



Robert J. Marks II
President, Advisory Committee
IEEE Council on Neural Nets

2/27/91
Date



Rosalyn G. Snyder
2/19/91
Date

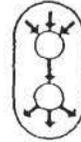
Charles J. Robinson
Production Editor
IEEE Council on Neural Nets

Date

A definite acceptance will occur upon receipt of a signed original or a facsimile of a signed original by all signees. If a FAX transmittal is used by any party, then the FAX copy shall serve as an original unless an actual original is executed and received by all parties within ten (10) days.



NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

MEMO :

3-4-91

To: Cliff Lau, IJCNN'92 Chair

From: PK Simpson

Subject: Seed \$

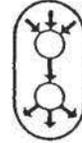
Cliff —

① I ~~am~~ have contacted Dr. Shoemaker @ NSC. He is setting up an account. Once this is done I'll have the \$50K seed money wired in.

② The budget looks good at first glance. I'll examine it in greater detail & report any concerns to you & Dr. Shoemaker. Operate with the budget as is though. Has it been approved by the NNC? (I can't remember if we did so in January or not).

③ Questions or comments? Please don't hesitate to call.
619-573-2417.

cc: P. Shoemaker



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 5, 1991

IEEE Conference Services
Attention: Mary Ann DeWald
P.O. Box 1331
Piscataway, NJ 08855-1331

I recently forwarded a budget for the IJCNN but neglected to append an addendum approved by the Council's AdCom in January. Please addend the budget with \$20,000 in additional expenses categorized as follows:

\$ 2,500	Tutorial Administrative Costs
5,000	Seattle Program Committee Meeting, March 13, 1991
<u>12,500</u>	Additional funds for Tutorial Speakers
\$20,000	Total

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: George Lendaris, Seattle IJCNN Finance Chair
Paul Werbos, INNS
Russ Eberhart, Neural Networks Council Vice President
Patrick K. Simpson, Neural Networks Council Treasurer
Evangelia Tzanakou, Neural Networks Council Secretary

File

Robert J. Marks II Library Archive

From marks@u.washington.edu Fri Feb 15 13:19:51 1991

Return-Path: <marks@u.washington.edu>

Received: from milton.u.washington.edu by jewett.ee.washington.edu (4.0/SMI-3.2)
id AA01229; Fri, 15 Feb 91 13:19:48 PST

Received: by milton.u.washington.edu

(5.61/UW-NDC Revision: 2.1) id AA28923; Fri, 15 Feb 91 13:29:43 -0800

Date: Fri, 15 Feb 91 13:29:43 -0800

From: Robert Marks <marks@u.washington.edu>

Message-Id: <9102152129.AA28923@milton.u.washington.edu>

Sender: marks@milton.u.washington.edu

To: marks@jewett.ee.washington.edu

Status: R

From lendaris@eecs.ee.pdx.edu Thu Feb 14 11:55:42 1991

Received: from blake.u.washington.edu by milton.u.washington.edu

(5.61/UW-NDC Revision: 2.1) id AA21473; Thu, 14 Feb 91 11:55:38 -C

Received: from pdxgate.cs.pdx.edu by blake.u.washington.edu

(5.61/UW-NDC Revision: 2.1) id AA10157; Thu, 14 Feb 91 11:55:30 -C

Received: from eecs.ee.pdx.edu (eecs.cs.pdx.edu) by pdxgate.cs.pdx.edu (4.
id AA10699; Thu, 14 Feb 91 11:55:26 PSTReceived: from eecs.ee.pdx.edu by eecs.ee.pdx.edu (5.61/pdx-client-evisor
id AA10042; Thu, 14 Feb 91 11:55:22 -0800

From: lendaris@eecs.ee.pdx.edu (George G. Lendaris)

Message-Id: <9102141955.AA10042@eecs.ee.pdx.edu>

Subject: Verify increase of \$20K in IJCNN-91 budget

To: pwerbos@note.nsf.gov (Dr. Paul Werbos),
marks@blake.u.washington.edu (Bob Marks)

Date: Thu, 14 Feb 91 11:55:18 PST

Cc: lendaris@eecs.ee.pdx.edu (George G. Lendaris)

X-Mailer: ELM [version 2.3 PL1]

Status: O

A note from your friendly (new) IJCNN-91 Finance (co-)Chair:

I received a note from Jennifer Humphrey that there has been an
increase in the IJCNN-91 Budget as follows:

\$ 2,500	Tutorial Administrative Costs
5,000	Seattle Program Committee Meeting, March 13, 1991
12,500	Additional funds for Tutorial Speakers

\$20,000	Total new
----------	-----------

In the spirit of making things "official," in your respective roles vis-a-vis the INNS and the IEEE NN Council, please return this memo with a note appended verifying that I can consider the above items part of the IJCNN-91 budget.

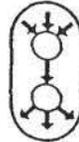
Thanks.

...George



IEEE

File



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

March 4, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Walter Karplus, Chair
NNC Standards Committee
3732 Boelter Hall
UCLA
Los Angeles, California 90024

Dear Walter:

Three items are enclosed:

1. Copies of correspondence from individuals interested in serving on the Committee. The letters are in response to Russ Eberhart's letter in the first Transactions issue.
2. Information concerning IEEE Standards Week in October.
3. A copy of the IEEE Standards Bearer.

You will have the responsibility of leading the Standards Committee in the manner you consider best. This includes choice of membership. The following are suggestions you may or may not wish to consider.

1. Investigate the Standards Week meeting to see if it is worth attending. The Council, of course, is willing to reimburse your travel and lodging expenses.
2. Schedule a Standards Committee meeting at the Seattle IJCNN. I can help you with local arrangements if you wish.
3. The IEEE Standards liaison to the Council is

John J. Woods
IEEE Standards Department
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Walter Karplus
Page Two
March 4, 1991

John has volunteered to travel and make presentations. His involvement in a Seattle Standards Meeting or an AdCom meeting might be appropriate.

4. If you anticipate the activities of your Committee require Council support beyond your travel and lodging expenses, a budget should be sent to the Council Treasurer for inclusion in the Council budget.
5. Evangelia Tzanakou has served as Chair of the Committee prior to its elevation to a standing committee. She recently attended a standards meeting at a neural networks workshop in Auburn. You may wish to touch base with her on the developments there.

Thank you for agreeing to undertake this task. Please let me know how I can help.

Best regards,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

Attachments

bc: Russ Eberhart, Vice President
IEEE Neural Networks Council

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Received: from MITVMA.MIT.EDU by APLVM.JHUAPL.EDU (Mailer R2.02A) with BSMTMP id
0578; Tue, 08 Jan 91 23:00:19 EST
Received: from MITVMA by MITVMA.MIT.EDU (Mailer R2.05) with BSMTMP id 6366; Tue,
08 Jan 91 22:59:33 EST
Received: from uunet.UU.NET by mitvma.mit.edu (IBM VM SMTP R1.2.LMX) with TCP;
Tue, 08 Jan 91 22:59:27 EST
Received: from vigyan!csa.UUCP by uunet.UU.NET (5.61/1.14) with UUCP
id AA17521; Tue, 8 Jan 91 22:59:55 -0500
Message-Id: <9101090359.AA17521@uunet.UU.NET>
Received: by shakti.ncst.ernet.in (1.2/Ultrix2.0-B) for ernet.in
id AA17954; Wed, 9 Jan 91 08:02:55+0530
Date: Wed, 9 Jan 91 08:02:54+0530
To: APLVM.BITNET!RCE1@ncst.ernet.in
From: uucp%vigyan@shakti.ernet.in
X-Comment: From: vigyan!uucp - Header Corrected at shakti.ncst.ernet.in

To Dr. Russel C Eberhart,
John Hopkins University
Applied Physics Lab.

Dear Dr. Eberhart,

We would be happy to recieve information regarding
the Standardization of Neural Network Terminology,
as stated in your letter which appeared in
IEEE Trans. on Neural Networks, last year.
Most of all, the list of terms already standardized and
their usage.

As we do not have a email connection, it would be kind of you
to send us material at the below address:

Mr. Atul Negi, c/o Dr. Arun Agarwal,
School of Math. and Computer Information Science
University of Hyderabad
Hyderabad 500 134
INDIA.

Thanking you,
yours sincerely,
Atul Negi.

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Received: from UKACRL.BITNET by APLVM.JHUAPL.EDU (Mailer R2.02A) with BSMTTP id 7351; Thu, 08 Nov 90 16:42:21 EST
Received: from RL.IB by UKACRL.BITNET (Mailer R2.03B) with BSMTTP id 4451; Thu, 08 Nov 90 10:54:40 GMT
Received:
Via: UK.AC.CF.CM; 8 NOV 90 10:54:34 GMT
From: Daniel K R McCormack <dkrm@computing-maths.cardiff.ac.uk>
Date: Thu, 8 Nov 90 09:54:44 GMT
Message-Id: <1059.9011080954@computing-maths.cardiff.ac.uk>
To: rcel@aplvm

STANDARDIZATION OF NEURAL NETWORK TERMINOLOGY

Dear Dr. Russel Eberhart / Standards committee

I have recently undertaken a Ph.D research project in Neural networks at the University of Wales College of Cardiff, Wales, Great Britain. Since I will be writing extensively about Neural Networks in my thesis I feel it would be useful to adopt a standard with respect to Neural Network terminology. I would therefore be most grateful if you could inform me of the adopted standards of the committee or could you please indicate a date and location of the published findings when they are known.

Many Thanks

Mr Daniel K R McCormack

email dkrm@uk.ac.cf.cm

postal address

University of Wales College of Cardiff
PO BOX 916
Cardiff
CF2 4YN
Great Britain
Tel (0222) 874812



Department of
Electrical Engineering

205 Dreese Laboratory
2015 Neil Avenue
Columbus, OH 43210-1272
Phone 614-292-2572

June 28, 1990

Dr. Robert J. Marks, II
President, IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering
University of Washington Seattle, WA 98195

Dear Dr. Marks,

I would like to become more involved in the professional activities of the Neural Network community. Since I am a member of both IEEE and INNS, I am writing you to volunteer my services. I am willing to assist in any appropriate way. I am particularly interested in Standards and I attend most of the IJCNN conferences, so I would be glad to offer my services in either of those areas.

I look forward to hearing from you.

Sincerely,

Stanley C. Ahalt
Assistant Professor

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Received: from WUVMD by APLVM.JHUAPL.EDU (Mailer R2.02A) with BSMTMP id 5183;
Wed, 12 Dec 90 14:04:39 EST
Received: from WUVMD by WUVMD (Mailer R2.07) with BSMTMP id 3692; Wed, 12 Dec 90
13:02:53 CST
Received: from wugate.wustl.edu by WUVMD.Wustl.Edu (IBM VM SMTP R1.2.2MX) with
TCP; Wed, 12 Dec 90 13:02:52 CST
Received: by wugate.wustl.edu (5.61++/WUSTL-0.3) with SMTP
id AA14712; Wed, 12 Dec 90 13:04:22 -0600
Return-Path: <rn15501@cecl.wustl.edu>
Received: from cecl.wustl.edu by wucsl.wustl.edu
(5.59/1.35); id AA15273; Wed, 12 Dec 90 13:04:22 CST
Received: by cecl.wustl.edu (4.0/SMI-4.0)
id AA09576; Wed, 12 Dec 90 13:04:17 CST
Date: Wed, 12 Dec 90 13:04:17 CST
From: rn15501@cecl.wustl.edu (Robert N. Ladage)
Message-Id: <9012121904.AA09576@cecl.wustl.edu>
To: rcel@aplvm.bitnet

Dr. Eberhart:

Hello, my name is Rob Ladage. I work in the Neural Network Support Lab at
McDonnell Douglas in St. Louis. We are starting a committee to propose
NN standards and promote NN information transfer between various NN groups
throughout McDonnell Douglas Corporation (MDC).

I read your article in the June issue of IEEE Transactions on Neural
Networks concerning NN standards. I would appreciate if you could send
me any results from your standards committee, so we can gear our standards
towards them.

Right now, our standards team is adopting data/weight file
standards, setting up a central computer account for data transfer, and
trying to establish a bibliography of NN papers generated within MDC.

Any input you could supply would be appreciated. If you would like to
contact me, my telephone number is (314)233-0295. Our Email at McAir is
not working correctly at this time.

Thank you for your help.

Sincerely,

Rob Ladage

Bob marks

From my files! (archives)

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

Received: from uwovax.uwo.ca by APLVM.JHUAPL.EDU (Mailer R2.02A) with BSMTMP id
8396; Mon, 10 Sep 90 07:00:36 EDT
Received: from relay.CDNnet.CA by uwovax.uwo.ca with SMTP;
(pid 3cb5) Sun, 9 Sep 90 18:19:37 EDT
Received: by relay.CDNnet.CA (4.1/1.14)
id AA07406; Sun, 9 Sep 90 15:20:12 PDT
Date: 9 Sep 90 15:19 -0700
From: Esfandiar Bandari <bandari@cs.ubc.ca>
To: <rce1%aplvm.BITNET@cunyvm.cuny.edu>
Message-Id: <652*bandari@cs.ubc.ca>
Subject: The ad hoc committee on Neural-net terminologies
Return-Receipt-To: Esfandiar Bandari <bandari@cs.ubc.ca>

Hello:

In regards to your ad-hoc committee on standardization of neural networks terminologies, I would like to request (on behalf of myself and many others) that you send me a copy of the established definitions; I also like to extend my personal thanks to you for spear heading that effort.

I am sure that this will be an on going process; do you a plan for notifying people of the updated or extended definitions (such as an ftp adress and a e-mailing list of people).

Thank you in advance.

--- Esfandiar



IEEE

STANDARDS DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833233

INFORMATION
(908) 562-3800

ADMINISTRATION
(908) 562-3801

MARKETING
(908) 562-3824

NESC/
GLOBAL ADDRESS
(908) 562-3812

SEMINARS
(908) 562-3805

STANDARDS BOARD
(908) 562-3807

November 1990

TO: Chairmen/Project Leaders of
IEEE Standards Committees and Working Groups

FROM: Andrew G. Salem
Staff Director - Standards *Andy Salem*

SUBJECT: IEEE STANDARDS WEEK '91 - October 20-24, 1991 -
Pompano Beach, Florida

For the last few years we have been offering chairmen and project leaders of IEEE standards committees an opportunity to hold meetings in a centralized location where the IEEE staff can provide various meeting and support services.

Arrangements have been made to hold STANDARDS WEEK '91 at the Westin Cypress Creek Hotel in Pompano Beach, Florida from Monday through Friday, October 20-24, 1991.

For a small daily registration fee we will again be providing the following services:

- On-site administrative support
- Complimentary meeting rooms
- Group breakfasts and refreshment breaks
- Free audio/visual aids (overhead projectors, blackboards, etc.)
- Typing and copying services
- Meal function planning assistance
- Access to laser printer

Attendees at past meetings have indicated that the daily group breakfasts and breaks provided a much needed opportunity to meet other standards writers and exchange views and experiences. With this in mind, we will be adding group luncheons each day; the cost will be included in the daily registration fee.

We have reserved a block of rooms at the Westin Cypress Creek at \$94 for single or double occupancy. If you are interested in joining us in Pompano Beach during STANDARDS WEEK '91 please complete the attached form and return it to Ms. Addy Zeni, Manager, Meeting and Special Events at IEEE Headquarters by January 30, 1991. We look forward to assigning meeting space on a first-come, first-served basis.

If you have any questions, please do not hesitate to contact Addy by telephone (212) 705-7304 or by telefax (212) 223-2911.

IEEE STANDARDS WEEK '91

Westin Cypress Creek Hotel - Pompano Beach, FL

October 20-24, 1991

COMMITTEE/WORKING GROUP _____

YOUR NAME _____

POSITION ON COMMITTEE/WORKING GROUP _____

MAILING ADDRESS _____

TELEPHONE _____ TELEFAX _____

CHAIRMAN'S NAME _____

(If different than above)

TELEPHONE _____ TELEFAX _____

PREFERRED DATE(S)

PREFERRED TIME(S)

1st Choice _____

2nd Choice _____

3rd Choice _____

ROOM SET-UP: Conference Style _____ Theater _____ Classroom _____

Other (Please specify) _____

USE OF A/V: Yes _____ No _____ Maybe _____

ATTENDANCE INFORMATION:

No. of Committee Members _____ No. on Mailing List _____

Attendance at Last Three Meetings _____

Expected Attendance This Meeting _____

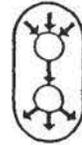
SIGNATURE _____ DATE _____

Please complete one form for each committee/working group and return it by January 31, 1991 to:

Ms Addy Zeni
IEEE
345 East 47th Street
New York, NY 10017



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

TO: Walter Karplus

FROM: Robert J. Marks II *RJM*

DATE: March 4, 1991

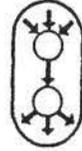
Walter, I'll follow this with something less formal packed with information.

File



IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

2-28-91

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, California 90024

Dear Dr. Karplus,

The *Neural Networks Council* has recently elevated its Standards Committee to the status of a Standing Committee. I hereby appoint you as Chair of the Committee for the calander year 1991. This appointment is subject to the consent of the Council AdCom.

I am delighted that you have indicated that you will accept this appointment and look forward to continuing working with you in the Council.

Sincerely,

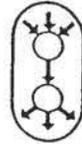
A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Patrick K. Simpson, NNC Treasurer
Mike Roth, Transactions Editor
John J. Woods, IEEE Liaison to the NNC
Irv Engelson, IEEE



NEURAL NETWORKS COUNCIL



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University of Washington
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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 4, 1991

Vincent Poor, Chair
NNC Nominations Committee
Dept. of Electrical Engineering
Princeton University
Princeton, New Jersey 08544

Dear Vince:

By this letter, I hereby nominate Don Brown for Council Secretary for 1991. If Don has been nominated, please consider this letter as an enthusiastic second.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

✓ bc: Russ Eberhart



SYSTEMS, MAN, AND CYBER

Please file

IEEE Council on Neural Networks
January 1991 AdCom Meeting
Baltimore, Maryland

Dear Council Member:

During the last meeting of this Council (June 1990, San
irregularities in IJCNN financial affairs. As chairman o
irregularities, several of which interfered and adversely
subsequent discussions and motions affect me directly and requ
A matter of great concern to me is that I am unable to bring to a close this matter
in good faith, for it may appear that I have been negligent or irresponsible. Nothing could be
truth. I am also afraid that my acquiescence may harm professional reputations. Now the constitution and
bylaws of NNC explicitly state that ten days after the adaption of all motions, directives etc. of the Council they
shall be transmitted in writing to the persons affected. As of this date, more than six months latter, I have
received nothing, and it appears that unless I initiate it I will never receive it. For I was told, my term of office
in this council expired last month. Accordingly after a brief discussion with Bob Marks, last night, I have
decided to pass on to you individually this information (and attachments) and to ask that it will become part of
the minutes of this meeting.

IJCNN was founded in the Fall of 1988 in very troublesome times in the midst of confusion, and strong
reactions to multiparty negotiations in attempts to bring the Neural Network community together. At first I was
totally neutral to the controversies. Perhaps because of this, as chairman of a small negotiating team, I was able
to bring together "warring" parties and a small group, that included Wes Snyder from this council, became the
architect of a new structure - the IJCNN - that was framed, agreed, documented and signed in the remarkable
time of 2 days. It was signed ny Bob Marks several weeks latter. At that time NNC had no written constitution
or bylaws and Bob Marks was Acting Chairman. We only had a few months left to put the show on the road
(the First IJCNN was scheduled for June 1989 in Washington D.C.). So we went ahead with the
implementation of the agreement the best we could; but in the most unusual way. Specifically:

Wes Snyder serving as General Co-Chairman of the IJCNN, Treasurer of NNC and member of the newly
created Oversight Committee.

Nick DeClaris serving as Chairman of the Oversight Committee and Chairman of the First IJCNN Finance
Committee.

These were a highly unusual arrangement, to say the least, imposed by extraordinary circumstances. We had
enormous difficulty to find people of proven stature to get involved. I was extremely reluctant to assume the
finance chair for they have been all sorts of accusations regarding the fiances of previous neural network
meetings. I agreed to accept it only after I was given firm guarantees (by the NNC Treasurer and IJCNN
co-chairmen) that I shall have sole money handling responsibility and that all expenditures will go through my
office. (Letter of 12/09/88 attached). As it turned out latter we had to add officially two more persons, but this
caused no difficulty. It is also important to realize that at the time IJCNN had no money and the same I was
told was true for NNC. The IJCNN conference team was a very unusual coalition involving an operation in
Washington DC while the key technical and business management was in San Diego. We all recognized that
these arrangements created very complex problems financially. I assumed my responsibilities after the
Conference budget had been prepared and submitted, After going to San Diego and coffering with the
principles there, I made a financial flow structure (copy attached) that allowed adequate monitoring, cost
controls and documentation. Moreover since Wes' budget was a broad document, good for policy purposes, and
not for day to day activities, I devised a detailed working budget that I insisted it must be adhered if I was to

remain in the chair (letter 01/30/89 attached). It was implemented providing the needed controls via appropriate database (copies available upon request). While highly effective to control expenses I came under heavy personal attack. Moreover great agitation surfaced regarding future meetings, hotel and management contracts to be signed. These were extremely difficult times and on several occasions

I offered my resignation. It was extremely difficult to recruit help. Bob Marks, Wes Snyder and I were in constant contact then. I became a lightning rod for complaints, but the thought that in this way Bob and Wes were given the time to frame the structure of NNC while Wes with Al were using their energy for put on the First IJCNN, was comforting. The biggest problem I faced then was that I was given very little initial money (\$25K) with which to start the Conference. I was not told and I did not know then that little more than \$5k was given to Nomi Feldam from the start. In fact initially I was forced on occasions to back up transactions with my personal financial resources. Later when it became clear that we suffered severely from cash flow, we received a \$k loan from the IEEE. Despite all of these difficulties (letter of 07/17/90 attached) the financial controls worked and the conference ended-up with a huge surplus, estimated by me to be more than \$210,000 -partly because of income that we had and I had not been advised of, and partly because of restructuring expenses i.e. tutorials - (letter of 10/20/90 attached). A month after the conference the General Chair was saying financially we were doing a fantastic job (letter 06/20/90 attached). The major problems came from within the NNC organization during and after the Conference when it became clear that we had such a financial success: Specifically:

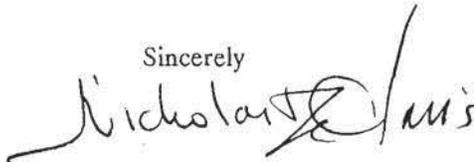
- 1) Rus Eberheart, the newly elected treasurer of the NNC on several occasions interfere with the day to day money handling matter of IJCNN (letter 10/12/90 attached).
- 2) Luck of documentation from several cost centers and income centers of the conference (notably Meeting Management, Hotel, etc. (copy of letter 10/12/90 attached) and luck of cooperation from a number of individuals.

The attached documentation is only a small fraction of the numerous efforts I made to solve these problems. Because of lack of reliable information, which others have, I am unable to complete my task and produce a documented accurate financial statement. I had hoped that by employing the prestigious accounting firm of Arthur and Anderson (which has offices in Washington and in San Diego) I may have been able to do so. Although after Bob Marks had originally concurred to our hire them, and after I had made contacts with this firm, I was advised in March of 1990 that, without consultation with me, arrangements have been made with another firm, which turned out to be in fact a local San Diego-based firm to make the audit - it turned out they were the same who made the audit to the previous Neural Network meeting in San Diego. In the spirit of cooperation I came to San Diego, after making arrangements, fully prepared to close this matter. My effort once again prove unsuccessful because of lack of reliable information.

I conclude by repeating the statement I made earlier. The first IJCNN proved to be a very good financial venture for the NNC, providing ample resources for future activities. What was the actual surplus we will have to wait to find out. How well did we do administratively only time will tell and this in time will be known. For my part I am committed for more than a quarter of a century to the advancement of Neural Network Research and education. I stand always ready, but perhaps a little more cautious, to fulfill my commitment.

Thank you for listening to me and I appreciate your understanding.

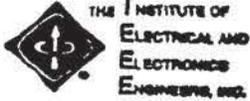
Sincerely



Nicholas DeClaris
Past NNC member.

Enclosures as stated.

12/09/88



IJCNN-89

INNS

OK, Folks, here is my current cut at the budget. I am faxing this copy to:

Nick DeClaris
Al Stubberud
Robert Hecht-Nielsen
Nomi Feldman
Mike Aronstein

Please call me with changes/deletions, etc. I will hand the budget to Nagle at 5pm on Monday (my time) so get to me before that.

Nomi, note my new letterhead... (If INNS has a logo, I couldn't find one)

I dont believe we can afford to wait for the merger to become official to start printing the advance announcements. Design them with only IEEE as sponsor. (In other words, no changes) Comments all?

As soon as this is approved, (Monday, I hope) Nick DeClaris will become official money handler, and all expenditures (and spelling corrections) should go through him.

Wes

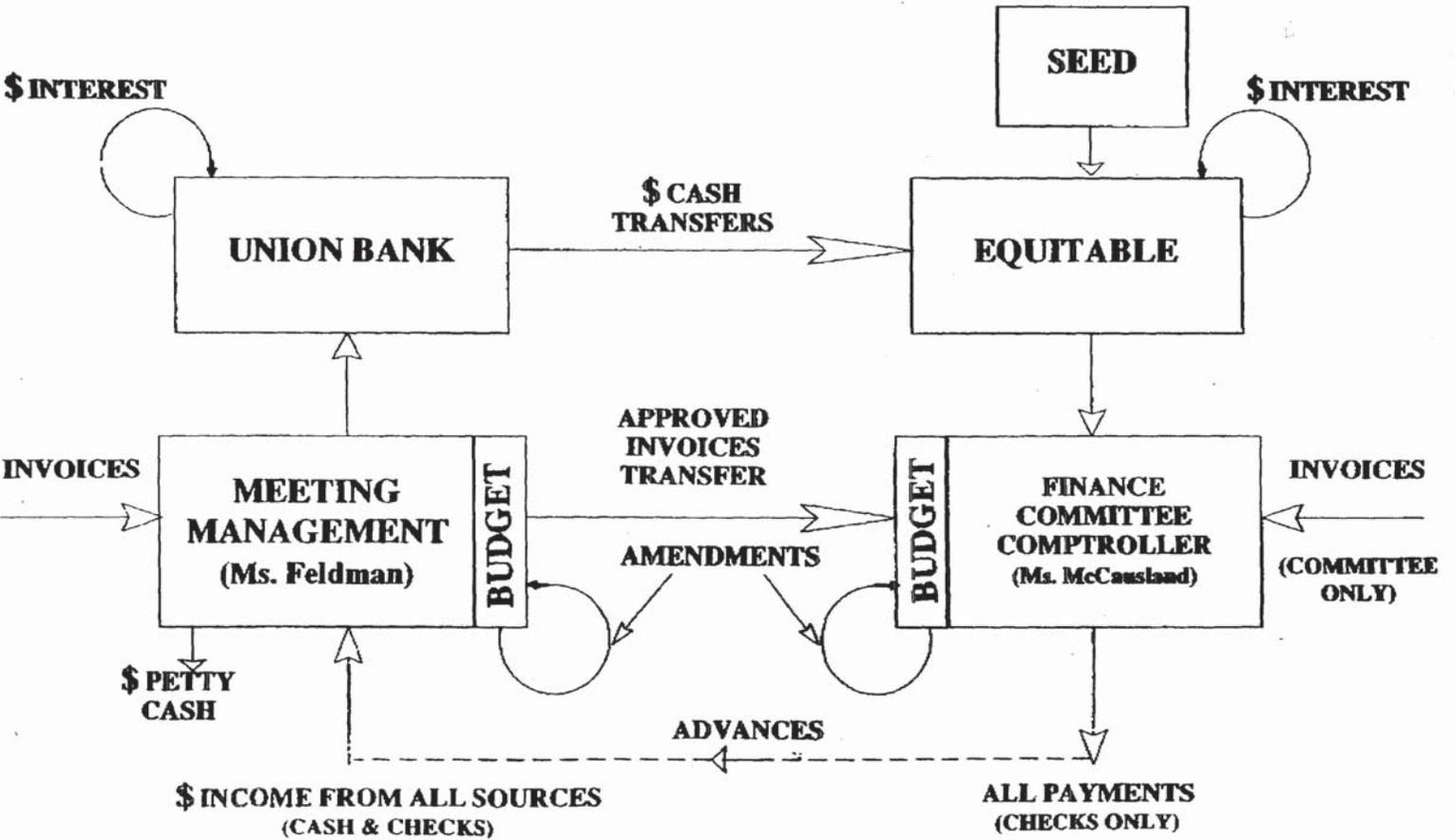
A handwritten signature in cursive script, appearing to read "Wes", is located below the typed name.

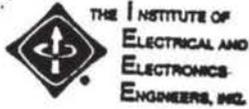
International Joint Conference on Neural Networks
Washington, DC June 18-21, 1989

UNN89 FINANCE - FLOW (ALL TRANSACTIONS)

CALIFORNIA

WASHINGTON (MD)





IJCNN-89

INNS

January 30, 1989

Ms. Nomi Feldman
3770 Tansy Street
San Diego, CA 92191

Dear Nomi,

I am enclosing a copy of the working budget which Nick drew up based upon the meeting with you and Mike. This budget agrees with my original budget at the bottom line, but disagrees in details. Since my original budget was derived from conversations with you and since that budget has been submitted to the NNC for approval I was very reluctant to authorize yet another variation. However, Nick was insistent

International Joint Conference on Neural Networks
Washington, DC June 18-21, 1989

that the funds breakdown described in this budget most accurately reflects what you feel are our present real needs. Therefore, please accept this budget as your operating document.

Sincerely

A handwritten signature in dark ink, appearing to read 'Wesley E. Snyder', written in a cursive style.

Wesley E. Snyder
Associate Professor

IJCNN '89
International Joint Conference on Neural Networks
Finance Committee

Nicholas DeClaris, Chairman
Maureen Caudill, Vice Chair
Jean McCausland, Comptroller

October 12, 1989

Dr. Russell Eberheart, NNC Treasurer
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20707

Rear Russ:

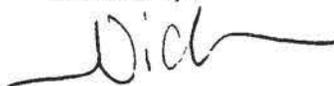
From Bob Marks I learned recently that during your visit to San Diego, you uncovered that the IEEE San Diego Section advanced \$5276.00 to the IJCNN89. In order to update our records I need to know the date the advance was made, where the money were deposited and how they were spent (what expenditure were covered by it). The Finance Committee was never told about the advance and had no knowledge of its existence and use until know.

Further, I understand that you reviewed with Ms. Nomi Feldman the hotel items that our Comptroller, Jean McCausland, needed information and on that basis you authorized payment. Many items in the list are above \$300 and the total sum (approximately \$15000) is substantial. Please identify the type of expenditure of these items so that we can update our actual budget records. Enclosed is the list of the unidentified items and I believe you have a copy of the approved Conference Budget categories for reference. Please marked it any return it to me.

I urgently need the above information in order to update the Financial Records of our Committee and to satisfactory complete the reporting requirements set by the IEEE headquarters. Bob Marks requested that we complete an audit early next week. I feel very uncomfortable proceeding without having your written response to the above two items.

You are aware that IJCNN89 was a huge financial success (report to Dr. Newcomb enclosed). But for us in the Financial Committee, it has been very frustrating experience trying to get information from the coordinating contractor, Meeting Management. The IJNN89 Financial Committee would appreciate any light you can set. Please contact me personally if you need information or when you have useful information regarding IJCNN89's finances.

Sincerely,



Nicholas DeClaris, Chairman
IJCNN89 Finance Committee

Enclosures
cc: Dr. Robert Marks II, NNC Chair

Ticket Number	Amount
0138512	415.00
0900197	59.52
0900097	7.44
0406397	62.00
0624797	81.84
0610997	96.72
0533697	7.44
0200597	49.60
0623197	62.00
0335297	357.12
0212397	81.84
0563712	614.80
0563412	310.80
0406297	238.08
0625897	89.28
0917654	30.62
0563912	406.00
0564212	63.60
0564012	377.80
0564412	406.00
0564612	346.00
0564512	106.00
0511161	32.59
0565812	346.00
0565712	346.00
0565312	53.00
0565012	490.80
0564912	437.80
0065912	5390.00
5016412	94.71
5016912	283.07
0005912	207.89
5006000	147.22
5005900	945.10
5005600	1090.40
0957912	1908.20
Total	16,051.28

IJCNN '89
International Joint Conference on Neural Networks
Finance Committee

Nicholas DeClaris, Chairman
Maureen Caudill, Vice Chair
Jean McCausland, Comptroller

October 20, 1989

Reply: University of Maryland
School of Medicine
Howard Hall, Rm. 150
660 West Redwood Street
Baltimore, MD 21201

Drs. Allen Stubberud and Wesley E. Snyder
Co-Chairmen, IJCNN89 Conference
University of California at Irvine
and North Carolina State University

Dear Al and Wes:

Congratulations! The IJCNN89 Conference was a huge success. The enclosed report summary of Financial Transactions tells the story. There is an additional sum of \$21,000 to \$27,000 expected from the IEEE Headquarters - payment for the 750 sets of Conference Proceedings we shipped to them in 2 volumes (as you recall, this shipment figure came as a result of our examining the printing expenditure at the time of the advance requested for the printer). Thus, the overall surplus for the Conference is expected to exceed \$210,000. Not bad for an initial investment (at risk) of only \$41,000.

We are now in the final stages of closing down the activities of the Finance Committee. There are a number of questions that must be answered before we can prepare our final report. NNC and INNS have each received \$97,000 to date. Also, Dr. Robert Newcomb, chairman of the IJCNN Oversight Committee, has been notified of the Financial Preliminary Transactions of our Committee (as required for the Agreement signed earlier this year). For your information, I am also inclosing a block diagram of the Financial Transactions Structure that we employed to provide financial expenditure control.

Best regards...

Sincerely,


Nicholas DeClaris
Chairman

Enclosures (2)
NDC/pja

cc: Dr. R.W. Newcomb
Dr. Robert J. Marks, II
Dr. Irving Ingleson

IJCNN '89
International Joint Conference on Neural Networks
Finance Committee

~~Nicholas DeClaris, Chairman~~
~~Maureen C. Smith, Vice Chair~~
~~Jean McCusker, Comptroller~~

July 17, 1989

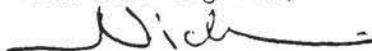
Reply to: 8518 Beaufort Drive
Fulton, Md 20759

Dr. Irving Engelson, Director
IEEE Technical Activities
345 East 47th Street
New York, N.Y. 10017-2934

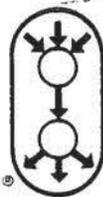
Dear Irving:

Enclosed is also a copy of the operating budget status report issued last month, on the day just before the Conference. When I spoke to you we had not as yet prepared the Preliminary Financial Report following the closing of the Conference because the Finance Committee lacks accurate conference-revenue information although I have made repeated appeals as you can see from the enclosed correspondence copy. Some information did arrived by FAX on Friday and immediately we prepared a draft financial status preliminary report for the Conference Committee's use. Enclosed is a copy of this report for your information only. Please note that the final projection is based on approved budget amounts. The working budget amounts, were itemized by the Finance Committee in much finer detail, several allowable expenditure were made to depended on registration figures, and these are smaller than those listed in the approved budget. Thus, if the operating budget figures were not exceeded by the meeting management, there will be no "loss" and the surplus projection should be greater than the amount given in this preliminary report (seed money).

With best regards,


Nicholas DeClaris.

Enclosures



IJCNN 89
INTERNATIONAL
JOINT CONFERENCE
ON NEURAL NETWORKS
3770 Tansy Street
San Diego, CA 92121
TEL. (619) 453-6222 FAX: (619) 453-7930

*Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society*

July 20, 1989

Nicholas DeClaris
8518 Beauford Drive
Fulton, Maryland 20759

Dear Nick:

Thanks for your letter with the budget modifications. You are doing a fantastic job! At this point, all we can do is wait and see how the bottom line shakes down. The conference was a success and that's what really matters.

Your Very Truly,

Wesley E. Snyder



THE UNIVERSITY OF MARYLAND

SCHOOL OF MEDICINE

Department of Epidemiology and Preventive Medicine

October 12, 1989

Nomi Feldman
Meeting Management
5665 Oberlin Dr. Suite 110
San Diego, California, 92121
FAX: 619-535-3880

Dear Nomi,

We urgently need information to complete the attached two IEEE Financial Reports for IJCNN89. They require an updated breakdown of income and expense figures that only you have and have not as yet been received from the Finance Committee.

Dr. Robert Marks has requested that these forms be mailed out, postmarked no later than November 16th. I therefore request that you send me by FAX (301-328-8016) the information I have checked on these forms no later than Friday October 13, 1989.

Your prompt response would be appreciated.

Sincerely,

Nicholas DeClaris,
Chairman, IJCNN89
Finance Committee

ND/bao

Enclosures: 2

cc: Dr. Marks /NNC
Ms. Jobmann/IEEE

FAX 619-535-3880
ORIGINAL SEND BY MAIL



CAMPUS FOR THE PROFESSIONS
655 West Baltimore Street
Baltimore, Maryland 21201

Ruth,
Please call
with my regrets.
3 The topic is
to far removed
from my specialty
-Bob-



IEEE

POWER ENGINEERING SOCIETY
POWER SYSTEM ENGINEERING COMMITTEE

PAST CHAIRMEN

R. D. Masiello
M. P. Bhavaraju

SUBCOMMITTEE CHAIRMEN

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National Regulatory Research Institute
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Columbus, OH 43210-1002
(614) 292-1834

Computer and Analytical Methods

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Pacific Gas and Electric Co.
77 Beale St., Room 1305
San Francisco, CA 94106
(415) 972-2733

International Practices

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14145 Via Lucio
Tustin, CA 92680
(714) 730-0316

Demand-Side Management

L. A. Finley
Houston Lighting and Power Co.
P. O. Box 1700
Houston, TX 77251
(713) 623-3011

Standards

R. A. Bednarik
Con Edison Co.
4 Irving Pl., Rm. 749-S
New York, NY 10003
(212) 460-2943

System Control

A. G. Hoffmann
Energy and Control Consultants
4400 Fair Lakes Ct.
Fairfax, VA 22033-3899
(703) 631-6912

System Economics

R. H. Sarikas
Foster Assoc. Inc.
1101 17th St., N.W.
Washington, D.C. 20036
(202) 296-2380

System Operations

W. R. Prince
Baltimore Gas & Electric Co.
Rutherford Business Center (ESO)
P. O. Box 1475
Baltimore, MD 21203
(301) 298-9200

System Planning

H. Lee Willis
ABB Power Systems, Inc.
777 Penn Center Blvd.
Pittsburgh, PA 15235
(412) 825-9247

System Dynamic Performance

R. G. Farmer
Arizona Public Service Co.
P. O. Box 53999, MS-1234
Phoenix, AZ 85072-3999
(602) 250-4390

Recognitions Working Group

B. F. Wollenberg
Dept. of Elec. Engrg.
University of Minnesota
200 Union St., S.E.
Minneapolis, MN 55455
(612) 626-7192

CHAIRMAN

L. L. Grigsby
Dept. of Elec. Engrg.
Auburn University
Auburn, AL 36849
(205) 844-1823

VICE CHAIRMAN

C. W. Gellings
Electric Power Res. Inst.
3412 Hillview Avenue
Palo Alto, CA 94304
(415) 855-2610

SECRETARY

W. A. Johnson
Potomac Electric Power Co.
P. O. Box 1010
Bethesda, MD 20827
(301) 469-5252

Feb. 21, 1991

Dear

R. Marks

I would very much appreciate it if you or one of your colleagues could review the enclosed paper. If the paper meets the Institute's standards, it would be presented at the next Power Meeting, and would subsequently be published in the *IEEE Transactions on Power Systems*. Please call me **immediately** at (415) 972-2734, or send a telefax to (415) 972-3530, or a telex to 910-372-6587 if you cannot review this paper.

In your evaluation of the paper, please pay special attention to:

- o overall contribution to the state-of-the-art
- o analytical treatment of the problem
- o presentation of the ideas and results
- o sufficiency of numerical results
- o adequacy of references on, and familiarity with, earlier work in the problem area
- o potential applicability of the work

This is certainly *not an all inclusive* list and you may wish to include *additional features*. A review is most valuable if it objectively assesses the contribution of the reported work to furthering state-of-the-art of the subject area. Moreover, you **must** provide a statement summarizing your assessment and comments. To maintain anonymity, please have this statement typed on a blank paper. Referees are asked **not** to use the comments to indicate their recommendation to accept or reject the paper. The recommendation should appear **only** on the yellow review sheet. If you are interested in other referees' comments, let me know and I will be pleased to send them to you. Please make every effort possible to meet the deadline date on the yellow form. If you cannot meet the deadline, then the paper will need to be deferred to a later meeting. I would encourage you to avoid that.

Sincerely,

George Gross

George Gross

GG:dcp
Enclosures

5091-104



IEEE Power Engineering Society

3/28/91

IS DEADLINE DATE FOR R

Reply Address

George Gross
Manager - Strategic Studies
77 Beale Street, Room 1305
San Francisco, California 94106
U.S.A.

FAX (415) 972-3530

Dear R. Marks

Date Sent: 2/21/91

The Power Engineering Society would be grateful for your assistance in reviewing the attached paper. Please review the paper carefully and promptly and fill out all parts of this sheet. You are assisting the Technical Paper Coordinator who is acting as an editor to determine whether the paper should be accepted or rejected by the Power Engineering Society. There is an obligation both to the author and the Society to provide papers of high professional quality to the technical sessions and for permanent reference value.

IF FOR ANY REASON YOU CANNOT MAKE THIS REVIEW BY THE ABOVE DEADLINE, PLEASE INFORM ME IMMEDIATELY, AND RETURN THE PAPER AND FORMS TO ME.

To help me to make the final evaluation of the paper and to give the author the basis of the decision, IT IS REQUIRED THAT YOU PREPARE A STATEMENT OF 100 WORDS OR MORE TO SUPPORT OR CLARIFY YOUR GRADING. INCLUDE IN THIS STATEMENT ANY SUGGESTIONS AND IDENTIFY CLEARLY THE SPECIFIC CHANGES REQUIRED FOR THE ACCEPTANCE OF THE PAPER. It is most important that you remain anonymous to the authors so your statement should be typed on plain unsigned sheets. Your recommendation should not be included in your review statement.

A copy of your comments will be passed to the authors, so please write with all courtesy and tact. Comments should be concise and objective, should focus on technical correctness and clarity, and should not form a discussion.

IEEE policy requires that the contents of papers under review be treated as privileged information not to be disclosed to others before publication. No one with access to a paper under review will make any inappropriate use of the special knowledge that access provides.

Thank you for your cooperation in this vital IEEE work. I COUNT ON YOU TO RETURN THIS FORM TO ME, WITH BOTH SIDES COMPLETED, BY THE ABOVE DEADLINE.

Sincerely,

SPECIAL COMMENTS FROM REVIEW ON REVERSE SIDE

Paper should be considered for Prize or Award _____

Paper should be considered for Spectrum _____

Paper should be considered for The Review _____

Paper should be brought to the attention of the PES Public Affairs Council _____

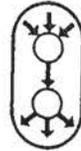
Paper should be referred - to a different reviewer _____

- to a different Committee _____

Reviewer's Signature _____ Date _____



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

3-27-91

Sarah Eck, Senior Conference Planner
University of Washington
Mail Stop GH-22

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dear Sarah,

Two items:

1. Please send me an Exhibitor's Prospectus for the IJCNN. As a cosponsor, the IEEE gets a (free) booth for soliciting membership and such. I have cleared this with Jennifer.
2. Here is a list of the rooms the Council will need at the IJCNN.

Sunday, July 7, 1991

2-5 PM	IJCNN Oversight Committee	Roy Nutter, Chair
2-5 PM	NNC Awards Committee	Brad Dickinson, Chair
6-9 PM	NNC Standards Committee	Walter Karplus, Chair
6-9 PM	NNC Meetings Committee	Roy Nutter, Chair
6-9 PM	NNC Publications Committee	Toshio Fukuda, Chair

Monday, July 8, 1991

9 AM - 4PM	NNC AdCom	Bob Marks, President
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The Sunday meetings will have no more than 12 participants each. The Monday meeting will have about 25 participants.

Please arrange a light buffet dinner for 20 for Sunday night from 5:00 PM to 6:00 PM. Something like fruit and cheese would be nice. Coffee and soft drinks Sunday at 3:00 PM and 7:00 PM.

Monday morning coffee and danish at 8:30 AM. Something healthy, like fruit, would also be nice. Coffee and ice water refresh at 10:30. Cold cut buffet lunch at 12:30. Coffee refresh at 2:30. Plan for 25.

I will have the numbers fine tuned at least a week before the meetings. The menu items are flexible. They are what I like to eat. Please let me know when you get the schedule firmed, including the room numbers.

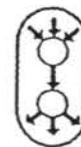
Sue

Best regards,

Robert J. Marks II, President
IEEE Neural Networks Council



NEURAL NETWORKS COUNCIL



J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 25, 1991

James Bezdek, Chair
1992 FUZZ-IEEE
The University of West Florida
11000 University Parkway
Pensacola, Florida 32514-5750

Dear Jim:

I'm delighted to inform you that the IEEE Industry Applications Society has accepted our invitation to be a Cooperating Society in the upcoming FUZZ-IEEE conference. Their letter is attached.

Sincerely,

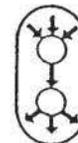
Robert J. Marks II, President
IEEE Neural Networks Council

cc: Melvin J. Dold, IAS Meetings Chair
Roy S. Nutter, NNC Meetings Chair
Nomi Feldman, Meetings Management

- file



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

March 22, 1991

George Lendaris, Ph.D.
Portland State University SySC
P.O. Box 751
Portland, OR 97207-0751

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dear George:

Per your request, I enclose a copy of the audit of the 1990
San Diego IJCNN.

Sincerely,

A handwritten signature in cursive script that reads 'Bobw'.

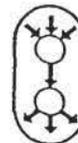
Robert J. Marks II, President
IEEE Neural Networks Council

Enclosure



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

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March 22, 1991

Paul Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Div. of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

The Council has approved the attached budget for the Baltimore IJCNN in 1992 at the 1200 estimated attendees level. The Council's approval is conditional upon a mutually acceptable Dissolution Agreement by our two societies by April 15, 1991.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

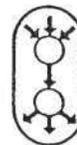
cc: Roy Nutter, IOC Chair
Russ Eberhart, NNC Vice President
Patrick K. Simpson, NNC Treasurer
Evangelia Tzanakou, NNC Secretary

File



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

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Department of Electrical Engineering, FT-10

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Seattle, WA 98195 USA
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e-mail: marks@blake.acs.washington.edu

March 22, 1991

Mary Ann DeWald
IEEE Conference Services
P.O. Box 1331
Piscataway, New Jersey 08855-1331

Dear Mary Ann:

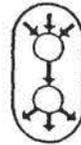
The attached budget for the 1992 Baltimore IJCNN has been approved by the Neural Networks Council at the 1200 estimated attendees level. I submit it to you for final approval by IEEE.

Sincerely,

Robert E. Marks II, President
Neural Networks Council

cc: Clifford Lau, Baltimore '92 IJCNN Chair
Pat Shoemaker, Baltimore '92 IJCNN Finance Chair
Patrick K. Simpson, NNC Treasurer
Roy Nutter, IOC Chair
Russ Eberhart, NNC Vice President
Evanagelia Tzanakou, NNC Secretary

✓ *file*
attachment



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

March 22, 1991

Mary Ann DeWald
IEEE Conference Services
P.O. Box 1331
Piscataway, New Jersey 08855-1331

University of Washington
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Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dear Mary Ann:

The attached budget for the 1992 Baltimore IJCNN has been approved by the Neural Networks Council at the 1200 estimated attendees level. I submit it to you for final approval by IEEE.

Sincerely,

Robert E. Marks II, President
Neural Networks Council

cc: Clifford Lau, Baltimore '92 IJCNN Chair
Pat Shoemaker, Baltimore '92 IJCNN Finance Chair
Patrick K. Simpson, NNC Treasurer
Roy Nutter, IOC Chair
Russ Eberhart, NNC Vice President
Evanagelia Tzanakou, NNC Secretary

✓ *file*
attachment

IJCNN'92 Baltimore Preliminary Budget

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$528,400	\$595,050	\$661,700	\$728,350	\$795,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total Income	\$578,400	\$645,050	\$711,700	\$778,350	\$845,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (Income - expenses)	\$44,700	\$84,350	\$121,800	\$157,050	\$192,300

IJCNN'92 Baltimore Preliminary Incomes

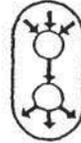
	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before April 20, 1992		\$245	\$285	\$75		
3	After April 20, 1992		\$295	\$335	\$90		
4	One day		\$100	\$120			
5	Tutorials -one	\$125					
6	-two	\$235					
7	- three	\$330					
8	Exhibitors (per booth)	\$950					
9	Publisher (per booth)	\$650					
10	Proceeding sales	\$80					
11							
12	Estimated attendees		1,200	1,400	1,600	1,800	2,000
13							
14	Early - member (25%)		\$73,500	\$85,750	\$98,000	\$110,250	\$122,500
15	Early - nonmember (10%)		\$34,200	\$39,900	\$45,600	\$51,300	\$57,000
16	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
17	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
18	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
19	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
20							
21	Registration Income		\$296,400	\$345,800	\$395,200	\$444,600	\$494,000
22							
23	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
24							
25	Tutorial Income - ave 2 ea	35% attar	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
26							
27	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
28							
29	Publisher Income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
30							
31	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
32							
33	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
34							
35							
36	Total Income		\$528,400	\$595,050	\$661,700	\$728,350	\$795,000

IJCNN'92 Baltimore Preliminary Expenses Budget

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 25, 1991

James Bezdek, Chair
1992 FUZZ-IEEE
The University of West Florida
11000 University Parkway
Pensacola, Florida 32514-5750

Dear Jim:

I'm delighted to inform you that the IEEE Industry Applications Society has accepted our invitation to be a Cooperating Society in the upcoming FUZZ-IEEE conference. Their letter is attached.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Melvin J. Dold, IAS Meetings Chair
Roy S. Nutter, NNC Meetings Chair
Nomi Feldman, Meetings Management

- file



IEEE

INDUSTRY APPLICATIONS SOCIETY

MEETINGS DEPARTMENT
Melvin J. Dold
Chairman

14 March 1991

PLEASE REPLY TO:
Micro Switch - A Honeywell Div.
15901 W. Highway 54
Goddard, KS 67052 USA
(316) 794-8834

Mr. Robert J. Marks II
President, IEEE Neural Networks Council
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195

Subject: International Conference on Fuzzy Systems
March, 1992
San Diego, CA

Dear Mr. Marks

This will reply to your letter on 8 February 1991 to Mr. Ronald Jackson, President of the Industry Applications Society (IAS), concerning cooperative support of the subject conference.

This letter is to inform you that the IAS Executive Board has voted to become a cooperating Society for this conference.

The editor of the IAS newsletter is Mr. F.A. Furfari. Please send any publicity releases, call for papers, or other items of interest to our members relating to this conference directly to him. His address is:

Mr. F.A. (Tony) Furfari
117 Washington Road
Pittsburgh, PA 15221

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Melvin J. Dold".

Melvin J. Dold
Chairman, Meetings Dept.

Copies: Mr. Ronald M. Jackson, President IEEE/IAS
Mr. F.A. Furfari, Editor, IEEE/IAS Newsletter



IEEE

SYSTEMS, MAN, AND CYBERNETICS SOCIETY

IEEE Council on Neural Networks
January 1991 AdCom Meeting
Baltimore, Maryland

January 26, 1991

PLEASE REPLY TO:

Dear Council Member:

During the last meeting of this Council (June 1990, San Diego) a motion was made out of concern to alleged irregularities in IJCNN financial affairs. As chairman of the First IJCNN, I agreed that there were indeed irregularities, several of which interfered and adversely affected my ability to serve effectively in this. The subsequent discussions and motions affect me directly and require follow-up. More than six months have passed. A matter of great concern to me is that I am unable to bring to a close this matter despite numerous effort made in good faith, for it may appear that I have been negligent or irresponsible. Nothing could be further from the truth. I am also afraid that my acquiescence may harm professional reputations. Now the constitution and bylaws of NNC explicitly state that ten days after the adaption of all motions, directives etc. of the Council they shall be transmitted in writing to the persons affected. As of this date, more than six months latter, I have received nothing, and it appears that unless I initiate it I will never receive it. For I was told, my term of office in this council expired last month. Accordingly after a brief discussion with Bob Marks, last night, I have decided to pass on to you individually this information (and attachments) and to ask that it will become part of the minutes of this meeting.

IJCNN was founded in the Fall of 1988 in very troublesome times in the midst of confusion, and strong reactions to multiparty negotiations in attempts to bring the Neural Network community together. At first I was totally neutral to the controversies. Perhaps because of this, as chairman of a small negotiating team, I was able to bring together "warring" parties and a small group, that included Wes Snyder from this council, became the architect of a new structure - the IJCNN - that was framed, agreed, documented and signed in the remarkable time of 2 days. It was signed ny Bob Marks several weeks latter. At that time NNC had no written constitution or bylaws and Bob Marks was Acting Chairman. We only had a few months left to put the show on the road (the First IJCNN was scheduled for June 1989 in Washington D.C.). So we went ahead with the implementation of the agreement the best we could, but in the most unusual way. Specifically:

Wes Snyder serving as General Co-Chairman of the IJCNN, Treasurer of NNC and member of the newly created Oversight Committee.

Nick DeClaris serving as Chairman of the Oversight Committee and Chairman of the First IJCNN Finance Committee.

These were a highly unusual arrangement, to say the least, imposed by extraordinary circumstances. We had enormous difficulty to find people of proven stature to get involved. I was extremely reluctant to assume the finance chair for they have been all sorts of accusations regarding the fiances of previous neural network meetings. I agreed to accept it only after I was given firm guarantees (by the NNC Treasurer and IJCNN co-chairmen) that I shall have sole money handling responsibility and that all expenditures will go through my office. (Letter of 12/09/88 attached). As it turned out latter we had to add officially two more persons, but this caused no difficulty. It is also important to realize that at the time IJCNN had no money and the same I was told was true for NNC. The IJCNN conference team was a very unusual coalition involving an operation in Washington DC while the key technical and business management was in San Diego. We all recognized that these arrangements created very complex problems financially. I assumed my responsibilities after the Conference budget had been prepared and submitted, After going to San Diego and coffering with the principles there, I made a financial flow structure (copy attached) that allowed adequate monitoring, cost controls and documentation. Moreover since Wes' budget was a broad document, good for policy purposes, and not for day to day activities, I devised a detailed working budget that I insisted it must be adhered if I was to

remain in the chair (letter 01/30/89 attached). It was implemented providing the needed controls via appropriate database (copies available upon request). While highly effective to control expenses I came under heavy personal attack. Moreover great agitation surfaced regarding future meetings, hotel and management contracts to be signed. These were extremely difficult times and on several occasions

I offered my resignation. It was extremely difficult to recruit help. Bob Marks, Wes Snyder and I were in constant contact then. I became a lightning rod for complaints, but the thought that in this way Bob and I were given the time to frame the structure of NNC while Wes with Al were using their energy for put on the First IJCNN, was comforting. The biggest problem I faced then was that I was given very little initial money (\$25K) with which to start the Conference. I was not told and I did not know then that little more than \$5k was given to Nomi Feldam from the start. In fact initially I was forced on occasions to back up transactions with my personal financial resources. Later when it became clear that we suffered severely from cash flow, we received a \$k loan from the IEEE. Despite all of these difficulties (letter of 07/17/90 attached) the financial controls worked and the conference ended-up with a huge surplus, estimated by me to be more than \$210,000 -partly because of income that we had and I had not been advised of, and partly because of restructuring expenses i.e. tutorials - (letter of 10/20/90 attached). A month after the conference the General Chair was saying financially we were doing a fantastic job (letter 06/20/90 attached). The major problems came from within the NNC organization during and after the Conference when it became clear that we had such a financial success: Specifically:

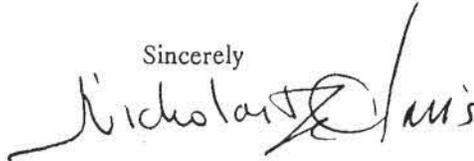
- 1) Rus Eberheart, the newly elected treasurer of the NNC on several occasions interfere with the day to day money handling matter of IJCNN (letter 10/12/90 attached).
- 2) Luck of documentation from several cost centers and income centers of the conference (notably Meeting Management, Hotel, etc. (copy of letter 10/12/90 attached) and lack of cooperation from a number of individuals.

The attached documentation is only a small fraction of the numerous efforts I made to solve these problems. Because of lack of reliable information, which others have, I am unable to complete my task and produce a documented accurate financial statement. I had hoped that by employing the prestigious accounting firm of Arthur and Anderson (which has offices in Washington and in San Diego) I may have been able to do so. Although after Bob Marks had originally concurred to our hire them, and after I had made contacts with this firm, I was advised in March of 1990 that, without consultation with me, arrangements have been made with another firm, which turned out to be in fact a local San Diego-based firm to make the audit - it turned out they were the same who made the audit to the previous Neural Network meeting in San Diego. In the spirit of cooperation I came to San Diego, after making arrangements, fully prepared to close this matter. My effort once again prove unsuccessful because of lack of reliable information.

I conclude by repeating the statement I made earlier. The first IJCNN proved to be a very good financial venture for the NNC, providing ample resources for future activities. What was the actual surplus we will have to wait to find out. How well did we do administratively only time will tell and this in time will be known. For my part I am committed for more than a quarter of a century to the advancement of Neural Network Research and education. I stand always ready, but perhaps a little more cautious, to fulfil my commitment.

Thank you for listening to me and I appreciate your understanding.

Sincerely

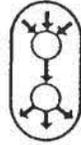


Nicholas DeClaris
Past NNC member.

Enclosures as stated.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

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Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 22, 1991

Paul Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Div. of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

The Council has approved the attached budget for the IJCNN in Singapore in 1991. The Council's approval is conditional upon a mutually acceptable Dissolution Agreement by our two societies by April 15, 1991.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks II".

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Roy Nutter, IOC Chair
Russ Eberhart, NNC Vice President
Patrick K. Simpson, NNC Treasurer
Evangelia Tzanakou, NNC Secretary

✓ file

	750 attendees (breakeven)	900 attendees (more likely)
INCOME		
Registration fees		
Full registrations at \$300	\$210,000	\$247,500
Students at \$100	5,000	7,500
Publication sales at \$90	20,000	25,000
IEEE Book Broker sales of Proc.	10,000	15,000
Exhibits (contract)	10,000	10,000
Tutorials (see note below)	84,375	84,375
	-----	-----
TOTAL INCOME	\$339,375	\$389,375
EXPENSES		
Promotional		
Printing call for papers	\$4,000	4,000
Printing advance program	6,000	6,000
Printing final program	3,000	3,000
Mailing labels from IEEE	1,000	1,000
Mailing call for papers	5,000	5,000
Mailing advance program	10,000	10,000
Advertising	5,000	7,000
	-----	-----
Subtotal	34,000	36,000
Conference Publications		
Printing of authors' kits	500	500
Mailing of authors' kits	2,000	2,000
Printing of Proceedings	45,000	45,000
Shipping costs	3,500	4,000
	-----	-----
Subtotal	50,500	51,500
Administrative		
Management fee at \$40 per delegate	30,000	36,000
Secretarial support on site	500	500
Stationary	500	500
Telecommunications	1,000	1,000
AV equipment rental	2,000	2,000
Committee expenses	9,000	9,000
Insurance	1,000	1,000
	-----	-----
Subtotal	44,000	50,000
Local arrangements		
Conference venue (lunch and two teas at \$110/delegate for 3 days)	77,000	99,000
Banquet	35,000	45,000
	-----	-----
Subtotal	112,000	144,000
Tutorials (see note below)		
Honoraria to presenters	7,500	7,500
Travel expense reimbursement	16,500	16,500
Meeting rooms, coffee/tea, lunch	15,750	15,750
Publicity	5,000	5,000
Publications	3,000	3,000
	-----	-----
Subtotal	47,750	47,750

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

TOTAL EXPENSES	\$288,250	\$329,250
PROJECTED SURPLUS	\$51,125	\$60,125

The students receive a copy of the Proceedings, but no banquet ticket.

Tutorials: It is estimated that 450 attendees will take an average of 1.5 tutorials each, at \$125 each. There will be 10 tutorial presenters giving 15 total tutorial sessions.

91/03/14
10:09:22

Silo

Mail

1

From marks@u.washington.edu Thu Mar 14 10:05:53 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA09144; Thu, 14 Mar 91 10:05:50 PST
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA21202; Thu, 14 Mar 91 10:05:15 -0800
Date: Thu, 14 Mar 91 10:05:15 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9103141805.AA21202@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: lauraj@ieee.org
Subject: registration
Cc: marks@milton.u.washington.edu, wagner@essex.ee.washington.edu
Status: R

Laura:

I'm not sure about the status of the registration. I have made hotel reservations. Is there any more that I need to do?

Bob

Mail

91/03/14
16:29:05

1

From marks@u.washington.edu Thu Mar 14 15:50:50 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA09269; Thu, 14 Mar 91 15:50:48 PST
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA24589; Thu, 14 Mar 91 15:50:18 -0800
Date: Thu, 14 Mar 91 15:50:18 -0800
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9103142350.AA24589@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Subject: Nashville
Cc: marks@milton.u.washington.edu
Status: R

Did we do this?

#####

From lauraj@ieee.org Thu Mar 14 15:35:44 1991
Received: from ieee.org by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA19638; Thu, 14 Mar 91 15:35:33 -0800
Received: from laujob.ieee.org by IEEE.ORG (4.0/SMI-4.0)
id AA01111; Thu, 14 Mar 91 18:33:00 EST
Date: Thu, 14 Mar 91 18:33:00 EST
From: lauraj@ieee.org (Laura Jobmann)
To: marks@u.washington.edu
Subject: Re: registration
Cc: l.jobmann@ieee.org, s.marcone@ieee.org
Message-Id: <Q7E01660@laujob>
In-Reply-To: <9103141805.AA21202@milton.u.washington.edu>
Status: O

Bob:

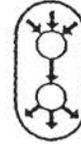
Did you send your reservation form to us? As of this afternoon we did not
have your information in our reservation database. Please advise.

Laura

201-5623910



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 22, 1991

Marilyn Prusan
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Marilyn:

Please send checks from \$49.14 and \$316.45 to Patrick K. Simpson
at his address on the attached letterhead.

I hereby approve these reimbursements from Council funds for reasons
described in the attached correspondence.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson

File

that I

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Rosalyn Snyder

Name of Firm: _____

Location of Firm: Raleigh, NC

Facsimile Telephone Number: 919-851-1433

From: R Marks II Phone: 206-543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 3 pages.

Date: 3/25/91 Time: 9⁰⁰/_a

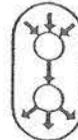
Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 25, 1991

Rosalyn Snyder, Managing Editor
The Intelligence Connection
3603 Octavia Street
Raleigh, NC 27606

Dear Roz:

Here are some changes on my message.

Sincerely,

A handwritten signature in black ink, appearing to be 'RJM' with a small 'rw' below it.

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

Attachment



IEEE Neural Networks Council

the intelligence Connection

VOLUME 1

NUMBER 1

MAY 1991

President's Corner

Robert J. Marks II

The Focus of the Council

The majority of papers submitted to the 1991 Seattle IJCNN deal with applications. This, I believe, is significant evidence that the field of artificial neural networks has matured significantly in the last few years. The interest and activity in neural networks is at a higher level than ever before. The charter of the *IEEE Neural Networks Council* is to continue the nurturing of this maturation through technical conferences and publications.

Around the maturing of the artificial neural networks has sprouted other new and exciting biologically motivated computational paradigms, including genetic algorithms and evolutionary programming. Training methods not constrained to neural network architectures are attracting significant attention. The more mature field of fuzzy systems is emerging as a singularly significant field of technology.

The *Neural Networks Council* is dedicated to involvement in these and other emerging technologies in the field of intelligent systems. As you can see elsewhere in this newsletter, we will be sponsoring in February 1992 the first ever *IEEE International Conference on Fuzzy Systems*. This is the first IEEE conference of international scope ever dedicated solely to the topic of fuzzy systems. The Council's *Transactions on Neural Networks* will also soon have a special issue devoted to the topic.

The newly introduced *Neural Network Council Forum* series of smaller scale meetings allows flexibility to explore other evolving areas in the field of intelligent systems. (Watch for the announcement of Forum meetings in Council publications.) As is the case with artificial neural networks, the Council will play a major role in the evolution and maturing of these new and exciting related technologies.

Best regards,

Bob Marks 3-12-91

→
OMIT

Constituent Societies of the Council

Circuits and Systems
Communications
Control Systems
Engineering in Medicine and Biology
Industrial Electronics
Industry Applications
Information Theory
Lasers and Electro-Optics
Oceanic Engineering
Signal Processing
Robotics and Automation
Systems Man and Cybernetics

Council President: Robert J. Marks, II,
University of Washington
Newsletter Editor: Wesley E. Snyder,
The Bowman Gray School of Medicine
Wake Forest University
Dept. of Radiology
300 Hawthorne Road
Winston-Salem NC 27103
Tel: 919-748-3908
Fax: 919-748-2870
email: wes@sailboard.bgs.m.wfu.edu

University of Washington Correspondence

INTERDEPARTMENTAL

DEPARTMENT OF ELECTRICAL ENGINEERING, FT-10

TO: EE Faculty, Staff, and Students
FROM: Sharon Schlittenhard *Sharon*^{KR}
RE: Fire Alarm Test

There will be a test of our fire alarm system 7:30-8:00 a.m. on Tuesday, April 2. Don't be alarmed! You will not have to evacuate the building.

\KR

University of Washington Correspondence

INTERDEPARTMENTAL

DEPARTMENT OF ELECTRICAL ENGINEERING, FT-10

TO: EE Faculty, Staff, and Students
FROM: Sharon Schlittenhard *Sharon*^{KR}
RE: Fire Alarm Test

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\KR

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Elizabeth Maglori
Name of Firm: IEEE
Location of Firm: Piscataway, NJ
Facsimile Telephone Number: 908-562-1571
From: Bob Marks II Phone: 206-543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 3/21/91 Time: _____

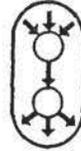
Comments: Please order 1 box of stationery, 1 box of envelopes, 1 box of business cards for Dr. Karpus - see attached - charge to Neural Networks Council; send to Dr. Karpus in Los Angeles.

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-1-91

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, California 90024

Dear Walter,

I will be ordering stationary and cards for you. Please let me know if there is any change to the following:

Walter Karplus, Chair
Standards Committee

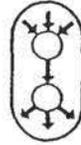
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929
FAX (213) 825-2273
karplus@cs.ucla.edu

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob' with a horizontal line through it.

Robert J. Marks II, President
IEEE Council on Neural Networks

File



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 19, 1991

Mary Ann DeWald
IEEE Conference Services
P.O. Box 1331
Piscataway, NJ

Dear Mary Ann:

The IEEE Neural Networks Council has approved the attached budget for the 1991 Singapore IJCNN and hereby submits it to IEEE for final approval.

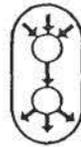
Sincerely,

A handwritten signature in cursive that reads "Bob Marks II".

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Teck Seng Low, IJCNN Chair
Russ Eberhart, IJCNN Vice President
Pat Simpson, IJCNN Treasurer
Evangelia Tzanakou, IJCNN Secretary

-file
Attachment



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

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IEEE Neural Networks Council

cc: Teck Seng Low, IJCNN Chair
Russ Eberhart, IJCNN Vice President
Pat Simpson, IJCNN Treasurer
Evangelia Tzanakou, IJCNN Secretary

File
Attachment

6/90

IJCNN 1991 SINGAPORE BUDGET

INCOME	750 attendees (breakeven)	900 attendees (more likely)
Registration fees		
Full registrations at \$300	\$210,000	\$247,500
Students at \$100	5,000	7,500
Publication sales at \$90	20,000	25,000
IEEE Book Broker sales of Proc.	10,000	15,000
Exhibits (contract)	10,000	10,000
Tutorials (see note below)	84,375	84,375
	-----	-----
TOTAL INCOME	\$339,375	\$389,375
EXPENSES		
Promotional		
Printing call for papers	\$4,000	4,000
Printing advance program	6,000	6,000
Printing final program	3,000	3,000
Mailing labels from IEEE	1,000	1,000
Mailing call for papers	5,000	5,000
Mailing advance program	10,000	10,000
Advertising	5,000	7,000
	-----	-----
Subtotal	34,000	36,000
Conference Publications		
Printing of authors' kits	500	500
Mailing of authors' kits	2,000	2,000
Printing of Proceedings	45,000	45,000
Shipping costs	3,500	4,000
	-----	-----
Subtotal	50,500	51,500
Administrative		
Management fee at \$40 per delegate	30,000	36,000
Secretarial support on site	500	500
Stationary	500	500
Telecommunications	1,000	1,000
AV equipment rental	2,000	2,000
Committee expenses	9,000	9,000
Insurance	1,000	1,000
	-----	-----
Subtotal	44,000	50,000

Local arrangements

Conference venue (lunch and two teas at \$110/delegate for 3 days)	77,000	99,000
Banquet	35,000	45,000
	-----	-----
Subtotal	112,000	144,000

Tutorials (see note below)

Honoraria to presenters	7,500	7,500
Travel expense reimbursement	16,500	16,500
Meeting rooms, coffee/tea, lunch	15,750	15,750
Publicity	5,000	5,000
Publications	3,000	3,000
	-----	-----
Subtotal	47,750	47,750

TOTAL EXPENSES \$288,250 \$329,250

PROJECTED SURPLUS \$51,125 \$60,125

The students receive a copy of the Proceedings, but no banquet ticket.

Tutorials: It is estimated that 450 attendees will take an average of 1.5 tutorials each, at \$125 each. There will be 10 tutorial presenters giving 15 total tutorial sessions.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Laura Jobman

Name of Firm: IEEE

Location of Firm: Riscataway, NJ

Facsimile Telephone Number: (908) 562-1571

From: R Marks II Phone: (206) 543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 3 pages.

Date: 3/18/91 Time: 11^{am}

Comments: Thanks for sending info. The original had never been received.

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

IEEE
TAB Administration Council
MEETINGS/FUNCTIONS ATTENDANCE FORM

Nashville Marriott Hotel

April 5-6, 1991

		I will attend	I will not attend	My spouse will attend
Friday, April 5				
	<u>TAB Committee Members please note:</u>			
8:00 am - 12:00 pm	Long Range Planning Committee*	___	___	
8:00 am - 12:00 pm	New Technology Directions Committee*	X	___	
8:00 am - 12:00 pm	New Ventures Committee*	___	___	
8:00 am - 12:00 pm	Society Review Committee*	___	___	
12:00 pm - 1:00 pm	TAB Luncheon	___	___	
1:00 pm - 5:00 pm	Education Ad Hoc Committee	___	___	
1:00 pm - 5:00 pm	Strategic Planning and Review Committee	___	___	
1:00 pm - 5:00 pm	Technical Excellence and Leadership Ad Hoc Committee	___	___	
	<u>All Attendees please note:</u>			
6:00 pm - 9:00 pm	Reception/Dinner	___	___	___

Saturday, April 6

	<u>TABAC Members please note:</u>			
9:00 am - 12:00 pm	TAB Administration Council*	___	___	
12:00 pm - 1:00 pm	TAB Luncheon	___	___	
1:00 pm - 5:00 pm	TAB Administration Council (cont'd)	___	___	

NOTE: Please check all the functions that you will attend thus allowing appropriate arrangements to be made. Please note any special needs on the reverse side of form. If possible, we will accommodate you. If you subsequently make a change, please call Stacy Marcone at (908) 562-3911.

* A continental breakfast will be available one-half hour prior to the start of the meeting.

PLEASE BE SURE TO COMPLETE THE REVERSE SIDE.

**IEEE
TAB Administration Council
HOTEL RESERVATION FORM**

**Nashville Marriott Hotel
One Marriott Drive
Nashville, Tennessee 37210
Phone: (615) 889-9300***

PLEASE RETURN TO:
Ms. Stacy Marcone
IEEE Technical Activities
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

Phone: (908) 562-3911
Fax: (908) 562-1571

PLEASE RETURN
NO LATER THAN
TUESDAY,
MARCH 5, 1991

I am unable to attend the TAB Administration Council meetings in Nashville.

As indicated by my hotel reservation below and on the reverse side of form, I do plan to attend the TAB Administration Council meetings which I have indicated.

I have listed my arrival and departure dates below, but I do not require a hotel reservation.

Please make the following reservation for me:

Single (\$75/night) Double (\$75/night)
Arrival Date 4/4 Time plane arrives 9¹⁹ P
Departure Date 4/5 Time for a 4¹⁰ plane

I have the following special needs: _____

SIGNATURE	<u>[Signature]</u>
NAME	_____
SPOUSE'S NAME	_____
TAB POSITION	_____
DATE	_____

*The hotel does not have a dedicated fax line and requires a manual switchover to receive faxes.
sm:02/19/91

PLEASE BE SURE TO COMPLETE THE REVERSE SIDE.

IEEE
TAB Administration Council
HOTEL RESERVATION FORM

Nashville Marriott Hotel
One Marriott Drive
Nashville, Tennessee 37210
Phone: (615) 889-9300*

PLEASE RETURN TO:
Ms. Stacy Marcone
IEEE Technical Activities
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

Phone: (908) 562-3911
Fax: (908) 562-1571

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SPOUSE'S NAME	_____
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DATE	_____

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sm:02/19/91

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sm:02/19/91

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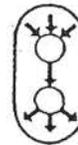
SIGNATURE	
NAME	_____
SPOUSE'S NAME	_____
TAB POSITION	_____
DATE	_____

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sm:02/19/91

PLEASE BE SURE TO COMPLETE THE REVERSE SIDE.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 18, 1991

Dr. George Lendaris, Finance Chair
Seattle IJCNN
Portland State University SySC
P. O. Box 751
Portland, Oregon 97207-0751

Dear George:

Per your request, I attach a copy of the approved budget for the conference.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: David Rumelhart, Seattle IJCNN Chair

bc: Russ Eberhart, NNC Vice President

File

DCNN-91-SEATTLE Expense Budget

8-Oct-93 Number of Attendees MARKETING/PROMOTION	1250	1500	1750	2000	2250	2500	2750	3000
Brochure Printing (75000)	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Mailing (50000)	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900
Mailing Lists (25000)	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125
Advertisements	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Public Relations/Press	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Miscellaneous Promotion	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Total Marketing	\$75,025							
SOCIAL FUNCTIONS								
Tuesday Eve Reception	\$15,625	\$18,750	\$21,875	\$25,000	\$28,125	\$31,250	\$34,375	\$37,500
Coffee Breaks	\$9,375	\$11,250	\$13,125	\$15,000	\$16,875	\$18,750	\$20,625	\$22,500
Press Functions	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Total Social Functions	\$35,000	\$40,000	\$45,000	\$50,000	\$55,000	\$60,000	\$65,000	\$70,000
REGISTRATION EXPENSES								
Credit Card Fees	\$2,578	\$3,093	\$3,609	\$4,124	\$4,640	\$5,155	\$5,671	\$6,186
Attendee Packet	\$12,513	\$14,300	\$16,088	\$17,875	\$19,663	\$21,450	\$23,238	\$25,025
Final Program	\$9,625	\$11,000	\$12,375	\$13,750	\$15,125	\$16,500	\$17,875	\$19,250
Meeting Mgr On-Site Exp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Phone/Postage/Etc.	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Meeting Mgr Fee	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Total Registration	\$57,466	\$67,393	\$77,321	\$87,245	\$97,173	\$107,105	\$117,033	\$126,961
MEETING RENT & FEES	\$30,000							
PUBLICATION EXPENSES								
Review Expenses	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900
Proceedings Publication	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Posters & Preim Program	\$10,375	\$11,500	\$12,625	\$13,750	\$14,875	\$16,000	\$17,125	\$18,250
Total Pub Expenses	\$59,525	\$66,900	\$74,275	\$81,650	\$89,025	\$96,400	\$103,775	\$111,150
ADMINISTRATION EXPENSES								
Insurance/Bonding	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Security & Guards	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Audio/Visual Equipment	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500
Office Equip (fax,copy, etc.)	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Signage/Forms	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Telephone	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Auditing	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
Bookkeeping/Finance	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Total Admin Expenses	\$48,500							
SEED MONEY TO 92 CONF	\$50,000							
COMMITTEE EXPENSES								
Tutorial Speaker Fees	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Travel Expenses, Tutorial	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550
Plenary Speaker Travel	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Committee Travel	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
2 Corp Suites (INNS/IEEE)	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280
Committee Phone Expenses	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Fax/Express Mail	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Total Comm. Expenses	\$30,330							
EXHIBIT EXPENSES								
Hall Rental	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000
Exhibit Management	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Exhibit Coordination & Marketing	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800
Total Exhibit Expenses	\$37,800							
Total Conference Expenses	\$421,848	\$443,948	\$466,251	\$488,554	\$510,857	\$533,160	\$555,463	\$577,766

Officially Submitted Budget

p. 1 of 2

Revised

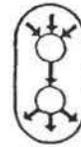
UCNN-91-Seattle REVISED Budget Income

8-Oct-88

	Member	Non-Member	Student					
Early Pre-Reg Fee	\$195	\$295	\$50					
Late Pre-Reg Fee	\$205	\$305	\$75					
On-Site Reg Fee	\$385	\$485	\$85					
Tutorial Fee	\$185	\$185	\$65					
One-Day Fee	\$125	\$175						
Number of Attendees	1250	1500	1750	2000	2250	2500	2750	3000
Registration Income								
Member Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Non-Mem Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Member Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Non-Mem Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Member On-Site	\$69,125	\$82,950	\$96,775	\$110,600	\$124,425	\$138,250	\$152,075	\$165,900
Non-Mem On-Site	\$86,625	\$103,950	\$121,275	\$138,600	\$155,925	\$173,250	\$190,575	\$207,900
Student Early	\$4,375	\$5,250	\$6,125	\$7,000	\$7,875	\$8,750	\$9,625	\$10,500
Student On-Site	\$8,313	\$9,975	\$11,638	\$13,300	\$14,963	\$16,625	\$18,288	\$19,950
Member One-Day	\$1,563	\$1,875	\$2,188	\$2,500	\$2,813	\$3,125	\$3,438	\$3,750
Non-Mem One-Day	\$2,188	\$2,625	\$3,063	\$3,500	\$3,938	\$4,375	\$4,813	\$5,250
Tot Regis. Income	\$343,688	\$412,425	\$481,163	\$548,900	\$618,638	\$687,375	\$756,113	\$824,850
Conference Promo Sales	\$1,125	\$1,350	\$1,575	\$1,800	\$2,025	\$2,250	\$2,475	\$2,700
Exhibitor	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Exhibitor Ads	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other Income								
Interest	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Advance from NNNS	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Hotel Room Surcharges	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500
Social Func. Tickets	\$875	\$1,050	\$1,225	\$1,400	\$1,575	\$1,750	\$1,925	\$2,100
Tutorial Fees	\$27,563	\$33,075	\$38,588	\$44,100	\$49,613	\$55,125	\$60,638	\$66,150
TOTAL INCOME	\$499,000	\$573,650	\$648,300	\$722,950	\$797,600	\$872,250	\$946,900	\$1,021,550
TOTAL EXPENSES	\$421,645	\$443,948	\$466,251	\$488,554	\$510,857	\$533,160	\$555,463	\$577,768
NET SURPLUS	\$77,355	\$129,702	\$182,049	\$234,396	\$286,743	\$339,090	\$391,437	\$443,784
SURPLUS plus SEED MONEY	\$127,355	\$179,702	\$232,049	\$284,396	\$336,743	\$389,090	\$441,437	\$493,784

revised

Officially Submitted
Budget, p.2 of 2



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 18, 1991

Marn Ann DeWald
IEEE Conference Services
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Mary Ann,

Attached is a copy of the final audit for the 1989 IJCNN.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

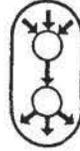
Attachment

RJM:rw

- file



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

5-25-91

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104, USSR
(8632) 280577, telex: 123228 TEMR
FAX (8632) 244311

Dear Dr. Dunin-Barkowski,

Thank you for your telephone call. The *IEEE Neural Networks Council* (NNC) is excited about involvement with the newly formed *Russian Neural Network Society*.

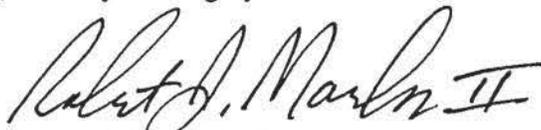
The NNC will be hosting a President's Dinner at the Seattle IJCNN on Tuesday, July 9, 1991. The Presidents of other neural network societies will also be in attendance. I invite you to attend. If you do not have the funds to attend, I have been authorized by the NNC Executive Committee to offer our assistance with a portion of your travel expenses. I will send you a FAX with more details within a week.

I am sorry that the NNC cannot participate in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* as proposed. There are two reasons. First, we are co-sponsoring the *International Joint Conference on Neural Networks* in Beijing on November 3-6, 1992. The conference is co-sponsored with the *International Neural Networks Society* (INNS). Our agreement with the INNS does not allow us to participate in another neural networks conference within 30 days (before or after) the Beijing conference. Your proposed dates of 4-6 October, 1992 are within this 30 day period. Nevertheless, the NNC will gladly list your conference in our newsletter which is distributed to over 8000 subscribers.

The NNC can be a participating society in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* under the following conditions*:

- ◆ The conference is scheduled to end on or before October 3, 1992.
- ◆ The estimated attendance at the conference is not more than 400.
- ◆ The local IEEE Section participates in the conference.
- ◆ The participation is approved by the NNC Administrative Committee.

Whether the NNC participates or not, I wish you a highly successful conference.


Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Roy Nutter, NNC Meetings Chair
Laura Jobmann, IEEE

Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE

File

* The first two conditions are imposed on us by our agreement with the INNS.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Dr. Dunin-Barkowski
Name of Firm: Rostov State University
Location of Firm: Rostov-on-Don, USSR
Facsimile Telephone Number: (8632) 244311
From: Dr. Robert J Marks II Phone: 206-543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 4/29/91 Time: _____

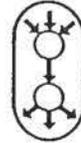
Comments: Sorry we have had trouble getting the FAX's
through to you

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

April 29, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute
Rostov State University
194/1 Stachka Avenue
Rostov-on-Don 344104
USSR

FAX: (8632) ²⁴⁴³¹¹~~280577~~

Dear Prof. Dunin-Barkowski:

You are invited to attend a Presidents' Dinner at the Seattle IJCNN at the Pilchuk Room in the Sheraton Hotel on Tuesday, July 9, at 6 PM. The purpose of the dinner is to bring the Presidents of the world's neural network societies together for informal conversation. It is my hope that further cooperation and understanding among the societies can be fostered in such a forum. Societies invited to the event include

Chinese Neural Network Society
IEEE Neural Networks Council.
International Neural Network Society
Japanese Neural Networks Society
JENNI
Russian Neural Network Society

The Vice President, or equivalent, of your Society is also invited to attend the dinner.

The Executive Committee of the IEEE Neural Networks Council has authorized me to offer support for your air fare (coach rate) to attend the Presidents' Dinner and lodging at the IJCNN site, if you so request.

Please let me know by June 15 if you can join us at the Presidents' Dinner. I look forward to seeing you in Seattle.

Sincerely,

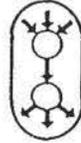
A handwritten signature in cursive script, appearing to read 'Robert J. Marks II'.

Robert J. Marks, President
IEEE Neural Networks Council

cc: NNC ExCom



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

4-31-91

James C. Bezdek
Nystul Professor
The University of West
Computer Science
11000 University Parkway
Pensacola, Florida 32514-

Jim,

Here is the proposal for the IEEE Transactions on Neural Networks. You can use this as a template.

I am working on identifying the people at IEEE that you can use for resources.

Sincerely,

A handwritten signature in black ink that reads "Bob" with a horizontal line through it.

Robert J. Marks II, President
IEEE Council on Neural Networks

File

PROPOSAL

for

PUBLICATION

of the

IEEE TRANSACTIONS ON NEURAL NETWORKS

by the

IEEE NEURAL NETWORKS COMMITTEE

which is composed of representatives of the *IEEE* Societies listed in Appendix A

INTRODUCTION AND SUMMARY

This document presents a proposal for an *IEEE Transactions on Neural Networks* sponsored by the *IEEE Neural Networks Committee (NNC)* which is composed of representatives from the *IEEE Societies* listed in Appendix A. The proposed transactions will be a quarterly publication starting in 1990 with 320 pages (including covers). The cost to *IEEE* members in the member societies will be \$10 and the cost to *IEEE* members outside of the member societies will be \$15. The proposed four-year budget shows a small surplus of \$13,000 in 1991 with more modest excesses in the subsequent three years. The proposed budget lists 4000 member subscribers in 1991 plus 1000 in the all-transactions package rising to 5500 member subscribers in 1993. If the current explosive interest in artificial neural networks continues, these figures are quite conservative.

PROPOSAL

Over the past several years, interest has been building in the use of neural networks as an alternative to conventional computation. Some have envisioned neural networks as an alternative to artificial intelligence (AI) as a way to attack problems AI has been unable to solve. The recent explosive growth of activities in neural networks became apparent at the 1987 *IEEE International Conference on Neural Networks* held in San Diego on June 21-24 with over 1600 attendees. This led to the formation of an *IEEE Neural Networks Committee* which has overseen the 1988 *IEEE International Conference on Neural Networks* held in San Diego, July 24-27, 1988 with over 1800 attendees.

The need for a centralized *IEEE* publication in artificial neural networks is parallel to the need for a centralized inter-Society *IEEE Neural Network Committee (NNC)*: there exists a broad spectrum of interest throughout (and from outside) *IEEE* in the topic. There have been a number of neural networks papers and special issues in the publications of *IEEE NNC Societies*. These scattered publications patterns, however, are quite difficult for the ever growing number of neural network researchers to follow. Furthermore, areas of analysis and application include not only those of the member *NNC* societies, but include many other topics such as biologically motivated processing, applications to engineering finance and forecast, and parallels to systems in physics. The current *IEEE* publications are not adequate to cover the ever expanding topical areas in this new field. The proposed publication is intended to supplement rather than replace the publication efforts of *IEEE Societies*.

Establishment of the subject Transaction would provide a valuable service to neural network researchers by making available a high quality apolitical archival publication that is characteristic of *IEEE*. There is little doubt that interest of those not currently in *IEEE* would increase membership through interest of those not currently members.

Background:

Artificial neural networks are concerned with electronic and photonic computing architectures which loosely resemble biological counterparts. The earliest visible work in neural networks was done in the late 1950's and 1960's by Rosenblatt and Widrow. The celebrated Widrow-Hoff algorithm, conceived initially as a training technique for neural networks, is today used in the adaptive channel equalization of virtually all long distance telephone systems to stabilize voice signals.

Interest in neural networks was rekindled by the visibility of the work of Hopfield starting in 1982. The interest in and application of neural networks has escalated

dramatically. There have been significant demonstrations of neural networks applications in fields such as vision, speech, signal processing, pattern recognition, robotics and combinatorics. Characteristic of the current classification abilities of neural networks is *Nestor Inc.'s Kanji Character Recognizer* which translates handwritten Kanji characters into English. The system can accurately recognize approximately 2,500 handwritten Kanji characters better than 92% of the time. This compares quite favorably with the average Japanese reader who is capable of recognizing between 1,800 and 3,000 characters and has an intellectual grasp of perhaps 10,000 characters. Similar examples are numerous.

A large number of significant start-up companies dedicated primarily to neural networks have appeared in the last few years. A number of larger companies, including Bell Labs, Bellcore, Boeing, NTT, British Aerospace, Rockwell, Lockheed, TI and Hughes all have neural networks research programs. Government sponsored initiatives from both DoD and NSF are numerous. DARPA, for example, has recently announced a thirty three million dollar program for neural network research. MITE has a multi-million dollar initiative for neural network research in Japan. Cal Tech, USC and Boston University have all recently developed curricula dedicated to the study of neural networks.

A number of neural network journals supported by commercial publishing houses have recently been initiated. Now is the time for *IEEE* to launch a high quality publication in neural networks if it is to play a significant role in this growing field. Although this proposal calls for a quarterly publication of 320 pages, we anticipate a growth to 600 pages in the fourth year.

I SCOPE OF THE PROPOSED TRANSACTIONS

The IEEE Transactions on Neural Networks will publish high quality technical papers on the science and technology of neural networks which disclose significant technical knowledge, exploratory developments and applications of neural networks from biology to software to hardware. Emphasis will be given to *artificial* neural networks. Biological neural networks are included only to the extent where their understanding will enhance the fields of artificial neural networks or biological engineering. Specific acceptable categories include the following aspects of neural networks:

1. self organizing systems
2. neurobiological connections
3. network dynamics
4. network architectures
5. learning algorithms
6. associative memories
7. image processing
8. vision
9. speech recognition
10. combinatorial optimization
11. electronic implementation
12. photonic implementation
13. robotic and controls
14. novel applications

The Transactions will also contain a Letters section dedicated to rapid publication of short correspondences concerning new research results.

II SPONSORSHIP

The Transactions is to be sponsored by the *IEEE Neural Networks Committee* which is composed of the member Societies listed in Appendix A. As a result of the success of the *1988 IEEE International Conference on Neural Networks* held in San Diego, California on July 24-27, 1988, there is a slight surplus which accrued to the NNC. This was the second such conference as the *1987 IEEE International Conference on Neural Networks* was held in San Diego on June 21-24, 1987. The first *IEEE International Joint Conference on Neural Networks*, to be jointly sponsored by the *IEEE NNC* and the *International Neural Network Society*, will be held for the first time in June of 1989. Plans call for holding this conference twice yearly thereafter.

III. ADMINISTRATIVE MANAGEMENT OF THE JOURNAL

The management of the Journal shall be vested in an Editorial Board (hereafter, the Board) composed of voting members with one member nominated by each Society which is a member of the *IEEE Neural Networks Committee*. Each board member must be a member of the NNC. In other words, when a member *IEEE* Society appoints two members to the NNC, one of those two will be designated as a member of the Board.

Furthermore, an Editor-in-Chief (hereafter, Editor) of the Transactions (who need not be an NNC member) will serve as a non-voting member of the Board.

The Editor shall be selected by the Board. The Editor may be removed by a two-third majority vote of the Board. The term of office for the Editor shall be three years, renewable by the Board. The Editor-in-Chief shall nominate Associate Editors to be approved by the Board. A Board member may be an Associate Editor but may not in any way participate in the discussion or vote concerning their own nomination.

The Chairman of the Board shall be one of the appointed Board members and shall be elected annually by the Board. One Board member shall be selected to serve as Secretary-Treasurer. If a vacancy develops on the Board, the appropriate Organization shall designate a replacement. If the Chair resigns or is absent, the Secretary-Treasurer shall act as Chair pro tem.

All actions of the Board, except removal of the Editor, shall be by majority vote of the Board.

IV. EDITORIAL POLICY

Editorial selection and review shall be consistent with policies and practices of the *IEEE*.

There shall be no commercial advertising in the Journal. However, each of the *IEEE* Societies that are NNC members shall be entitled to place announcements featuring its publications or events to the extent of one full page in each issue, free of charge, or in amounts as may be mutually determined by the Board.

The papers for the initial issues can be obtained from individual solicitation and from papers submitted to the 1989 *IEEE International Conference on Neural Networks (IJCNN)*. Final copies of the papers for the 1989 *IJCNN* are due by February 1989. This will allow ample lead time for the preparation of the first Transactions issue.

V. FINANCES

The budget for each calendar year shall be developed by the Board for approval by the *IEEE Neural Networks Committee* and for submission to the *IEEE* for final approval.

The budget shall include all customary *IEEE* Expense and Income items.

Attachment B shows the input data used in the financial analysis. Attachment C shows the financial projection for the years 1990 to 1993. All financial data are in terms of 1990 dollars.

Appendix A

MEMBERSHIP STATISTICS

Membership Statistics relative to constituent societies of *IEEE Neural Network Committee* as of January 1, 1989:

<u>Society</u>	<u>Number of Members</u>
ASSP	14,651
CAS	13,837
COMMUNICATIONS	27,752
CONTROL SYSTEMS	10,000
ENG & MED BIO	7,235
IND ELECTRONICS	5,351
INF THEORY	5,153
LASERS ELECT OP SOC	6,397
ROBOTIC AND AUTOMATION	6,395
SYSTEMS MAN & CYBER	4,480
	<hr/>
Total	101,251

Appendix B

FINANCIAL INPUT DATA

The expense numbers here are for a quarterly publication with 320 pages (including covers). This data was supplied by Otto Vathke (212) 705-7551 from the *IEEE* Publications. The expense numbers are for the cost in 1989 so they are increased by 5% to represent costs in 1990 as shown in the Proposed Budget in Appendix C.

ESTIMATE FOR NEW TRANS.

Total # pages/year	320		
Total # of issues/year	4		
Pages incl. covers-1 issue	80		
Print Order	5000		Totals
# of 32-page B&W forms	2		64
# of 8-page B&W forms	1		8
# of 4-page B&W forms	1		4
	No. forms	4	No. pages
			76

FIXED COSTS:

Editorial:	80 pp @ \$ 43.00	3440.00
Comp & Layout:	80 pp @ \$ 54.50	4360.00
Camera:	80 pp @ \$ 2.67	213.60
Press:	32's	396.26
		306.29
	8's	297.90
		.00
	4's	100.90
	C&F	32.80
		5134.14
Outside covers:		
2 color, pass 1 side	132.37	
Run	161.60	
Inside covers:		
1 color, pass 1 side	60.21	
Run	62.35	
Cut & Score	10.95	
		427.48
Binding:	287.34	287.34

VARIABLE COSTS:

Press:	32's, 24's,	224.40
--------	-------------	--------

Appendix B
Page 2

Mailing labor			310.97
Mailing labels:	5000 labs @ \$.040		200.00
Postage			987.19
Paper:	Text:	999.16	
	Cover:	185.64	1184.80
Subtotal			<u>12846.38</u>
Pub Admin Costs:			
	80 pp @ \$3.90/page		312.00
	Cost per issue		<u>218.00</u>
TOTAL PER ISSUE			13376.38
TOTAL PER YEAR 1988			53505.50
COST PER PAGE 1988			167.20

Note: This estimate does not include cost of servicing nonmember subscriptions. Postage does not include extra cost for overseas air mail (which is paid for directly by subscriber). Postage is based on average distribution between domestic and overseas regular mail.

Appendix C

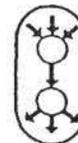
Proposed Transactions on Neural Networks
 Budget Estimates 1990 to 1993

Year	1990	1991	1992	1993
Number of Pages:	320	400	496	592
Ind. Non Member Rate	\$75.0	\$75.0	\$90.0	\$90.0
Member Fee	\$10.0	\$10.0	\$13.0	\$13.0
Number of Copies:				
Full Trans. Package	1000	1000	1000	1000
Member Subs.	4000	4500	5000	5500
Total Printrun	<u>5000</u>	<u>5500</u>	<u>6000</u>	<u>6500</u>
Costs:				
Prod. and Distr.	56.0	67.8	87.1	102.9
Indexing	1.0	1.4	1.6	1.8
Direct Editorial Exp.	10.0	14.0	16.0	18.0
Total Costs	<u>67.0</u>	<u>83.2</u>	<u>104.7</u>	<u>122.7</u>
Income:				
Member Fees	40.0	45.0	65.0	71.5
Full Trans. Package	40.0	47.0	52.0	56.0
Total Income:	<u>80.0</u>	<u>92.0</u>	<u>117.0</u>	<u>127.0</u>
Net:	+13.0	+8.8	+12.3	+4.3



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 30, 1991

James Bezdek, Chair
FUZZ-IEEE
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514

Dear Jim:

I'm delighted to inform you that the IEEE Robotics and Automation Society has chosen to be a Cooperating Society in FUZZ-IEEE.

Best regards,

Robert J. Marks, President
Neural Networks Council

cc: Nomi Feldman
Norman Caplan

File



ROBOTICS AND AUTOMATION SOCIETY

Norman Caplan
PRESIDENT

April 24, 1991

PLEASE REPLY TO:
Section Head, BES
National Science Foundation
Washington, D.C. 20550 USA
Tel: (202) 357-7737
Fax: (202) 357-9803
E-mail: ncaplan@note.nsf.gov

Dr. Robert J. Marks II
President
IEEE Neural Networks Council
University of Washington
Department of Electrical
Engineering, FT-10
Seattle, Washington 98195

Dear Dr. Marks:

Thank you for your letter of February 12, 1991 and the information concerning the IEEE Neural Network Council International Conference on Fuzzy Systems. I delayed my response to your letter because I wanted to bring the issue to the Robotics and Automation Society AD/COM meeting in Sacramento on April 8, 1991. The issue was discussed by the full committee and it was unanimously decided to accept the invitation to be a cooperating society.

Dr. Wesley Snyder is our liaison with the Neural Networks Council and he is the focal point for all future activity.

Thank you for your consideration.

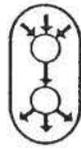
Sincerely yours,

A handwritten signature in cursive script that reads "Norman Caplan".

Norman Caplan
President
IEEE Society on Robotics
and Automation



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 30, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

I hereby approve support of your travel to attend the AdCom meeting in Seattle this summer. I furthermore approve an advance of up to \$750 to you for this travel..

Sincerely,

A handwritten signature in cursive that reads "Bob" followed by a small flourish.

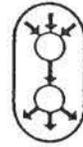
Robert J. Marks, President
Neural Networks Council

cc: Marilyn Prusan, IEEE
Russ Eberhart, NNC Vice President

A handwritten signature in cursive that reads "File".



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 30, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

I hereby approve travel support for Stamatios Kartalopoulos to attend the AdCom meeting in Seattle this summer.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob m'.

Robert J. Marks, President
Neural Networks Council

cc: S. Kartalopoulos

A handwritten signature in cursive script, appearing to read 'S. Kartalopoulos'.

AT&T Bell Laboratories
Rm 1E-220A
1 Whippany Rd
Whippany, NJ 07981
Phone: (201) 386-4289
Fax: (201) 386-6346
April 22, 1991

Professor Robert J. Marks, II, President
IEEE Neural Networks Council
Department of Electrical Engineering
University of Washington
FT-10
Seattle, WA 98195

Dear Professor Marks,

With this letter I would like to request your approval of my travel, lodging and meal expenses during my attendance of the IJCNN'91 meeting in Seattle, in July 1991.

I would appreciate your prompt response, so that I can go ahead with reservations.

Again, I would like to thank you for the opportunity to participate in the business of the NNC, that I enjoy and certainly look forward.

Very trully yours.

A handwritten signature in black ink, appearing to read 'Stamatios V. Kartalopoulos', written in a cursive style.

Stamatios V. Kartalopoulos

NNC letterhead

April 30, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

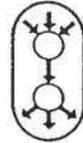
If the President of the Council has approved travel support for an AdCom member, that member, at the Treasurer's discretion can be awarded a reasonable advance for that travel.

Sincerely,

Robert J. Marks, President
Neural Networks Council

cc: Russ Eberhart, NNC Vice President

file



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

4-29-91

Jennifer Humphrey
SAIC
343 D Street
Chula Vista, CA 92010

Jennifer,

I have heard it said that laughter is a good medicine. Here is a collection of cartoons I drew during faculty meetings. I hope you enjoy them.

My prayers are with you.

Best regards,

file

A handwritten signature in black ink that reads "Bob" with a horizontal line through it.

Robert J. Marks II, President
IEEE Council on neural Networks

Apr 29 10:43 1991 standard input Page 1

From marks@u.washington.edu Sun Apr 28 22:42:42 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA06136; Sun, 28 Apr 91 22:42:40 PDT
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AB12012; Sun, 28 Apr 91 22:42:00 -0700
Date: Sun, 28 Apr 91 22:42:00 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9104290542.AB12012@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: jbezdek%uwf.BITNET@uwavm.u.washington.edu
Subject: IEEE Fuzz Trans
Cc: marks@milton.u.washington.edu, rcel%aplvm.BITNET@uwavm.u.washington.edu,
wagner@essex.ee.washington.edu
Status: R

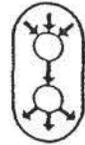
Jim,

I have mailed to you a letter of appointment for the ad hoc committee chair for IEEE Transactions on Fuzzy Systems. We need some other members. Zadeh would be good for name visibility. He has told me he will serve. I suggest one more member, possibly Japanese. I ask for your recommendation. Please e-mail to me Zadeh's address so I can send him a letter of appointment. I will also need an address for the third member.

I have also mailed to you the IEEE Transactions on NN;'s proposal. This will act as a good template. I am identifying resources at IEEE to work with also.

Best regards,

Bob Marks



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

4-30-91

James C. Bezdek
Nystul Professor
The University of West
Computer Science
11000 University Parkway
Pensacola, Florida 32514-

Jim,

I hereby appoint you to Chair the *IEEE Transactions on Fuzzy Systems ad hoc Committee*. Your charter is to prepare for presentation to the Council AdCom a proposal for the transactions.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Marks II".

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Patrick K. Simpson, NNC Treasurer
Mike Roth, Editor-in-Cheif, IEEE Transactions on Neural Networks
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Toshio Fukuda, NNC Publications Chair

File

May 6 10:46 1991 standard input Page 1

From marks@u.washington.edu Sun Apr 28 22:42:42 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu. (4.0/SMI-4.0)
id AA06136; Sun, 28 Apr 91 22:42:40 PDT
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AB12012; Sun, 28 Apr 91 22:42:00 -0700
Date: Sun, 28 Apr 91 22:42:00 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9104290542.AB12012@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: jbezdek@uwf.BITNET@uwavm.u.washington.edu
Subject: IEEE Fuzz Trans
Cc: marks@milton.u.washington.edu, rcel%aplvm.BITNET@uwavm.u.washington.edu,
wagner@essex.ee.washington.edu
Status: RO

Jim,

I have mailed to you a letter of appointment for the ad hoc committee chair for IEEE Transactions on Fuzzy Systems. We need some other members. Zadeh would be good for name visibility. He has told me he will serve. I suggest one more member, possibly Japanese. I ask for your recommendation. Please e-mail to me Zadeh's address so I can send him a letter of appointment. I will also need an address for the third member.

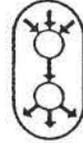
I have also mailed to you the IEEE Transactions on NN's proposal. This will act as a good template. I am identifying resources at IEEE to work with also.

Best regards,

Bob Marks



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

4-28-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550
(202) 357 9618 (O)
(301) 345 1446 (H)
FAX (202) 357-9408
pwerbos@note.nsf.gov

Dear Paul,

Enclosed are two copies of the Dissolution Agreement. If you are in agreement with the terms, please sign both copies and return to me. I will sign one of the copies and return to you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Laura Jobmann, IEEE
Roy Nutter, IOC Chair

file

IEEE NNC Proprietary - DRAFT

Dissolution Agreement

Whereas the societies named the IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) have entered into an Agreement concerning the joint sponsoring of the International Joint Conferences on Neural Networks series and, whereas, the NNC has chosen to dissolve that Agreement, and, whereas, the Presidents of the INNS and the NNC have been empowered by their organizations to resolve all unfinished business initiated as a result of the Agreement, the NNC and INNS do hereby agree as follows:

1. The Agreement (including Bylaws) will remain in effect through May 1, 1994, except as specifically amended by this Dissolution Agreement. This Dissolution Agreement is binding on both societies and may be altered only in writing with authorized joint signatures by both the President of INNS and the President of the NNC.
2. The following schedule of jointly sponsored meetings and corresponding Conference Chairs is hereby approved.

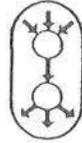
IJCNN Seattle	summer, '91	Prof. D. Rumelhart, Chair
IJCNN Singapore	autumn, '91	Prof. T.S. Low, Chair
IJCNN Baltimore	summer, '92	Prof. C. Lau, Chair
IJCNN Beijing	autumn, '92	Prof. Zong Sha, Chair
IJCNN Portland	summer, '93	Prof. G. Lendaris, Chair
IJCNN Japan	autumn, '93	Prof. S. Amari (Organizing Comm. Chair) Prof. T. Fukuda, (Steering Comm. Chair)

Neither the INNS nor the NNC will be involved, at any level, in any other major conference on artificial neural networks through May 1, 1994. A major conference is any meeting that has an attendance of no more than 400 participants at the conference sight. Commitments of involvement with major conferences by either Society made prior to February 1, 1991 are specifically excluded if the commitment(s) were made in accordance with the Agreement.

3. The NNC and INNS will share equally from the surplus from all IJCNN's and will equally share in the payment of any deficit originating from an IJCNN. No portion of the surplus will be set aside by either the NNC or the INNS as seed money for future conferences. If seed money has been deducted from the shared surplus of an earlier conference, the amount will be treated as a credit at the next conference.

Robert J. Marks II, President, IEEE Neural Networks Council

Paul J. Werbos, President, International Neural Networks Society



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

4-29-91

Teck Seng Low
Electrical Engineering Dept.
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511
FAX 779 1103
772 2129
elelowts@nusvm.bitnet

Toshio Fukuda
Nagoya University
Department of Mechanical Eng.
Furo-Cho, Chikusa-Ku
Nagoya, Japan
81 52 781-5111, Ex. 4478, 3301
FAX: (052) 781-9243
d43131a@nucc.nagoya-u.ac.jp

Dear Teck and Toshie,

As you both know, the Council's executive committee wishes to contact those who have submitted papers to the the Seattle IJCNN and encourage them to submit to the Singapore IJCNN (including the 400 of 700 who initially got their papers rejected). The attached letter is a draft.

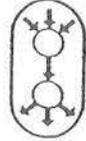
Tech: The letter should probably come from you and Toshie (instead of me and Toshie). If you agree, please let me know via e-mail or FAX and I will replace my name with yours. I am comfortable either way.

Toshie: I need your permission to put this letter out with your name on it. Please let me know via e-mail.

Sincerely,

A handwritten signature in black ink that reads "Bob" followed by a horizontal line.

Robert J. Marks II, President
IEEE Council on Neural Networks



NEURAL NETWORKS COUNCIL

May 1, 1991

The Seattle IJCNN will be the largest and most exciting meeting in neural networks this year in North America. We are delighted at your interest and look forward to meeting you in Seattle.

There is another IJCNN this year, November 18-22, 1991 in Singapore. Although both IJCNN's are cosponsored by the *IEEE Neural Networks Council* (IEEE-NNC) and the *International Neural Network Society* (INNS), the Seattle IJCNN is run and managed by the INNS and the Singapore IJCNN is the responsibility of the IEEE-NNC.

The deadline for submission of papers to the Singapore IJCNN is May 31, 1991. Air fare to Singapore is much less than you would expect. We hope you can attend and participate.

For more information about the Singapore IJCNN, see the March or May issue of the *IEEE Transactions on Neural Networks*, or write

Nomi Feldman
'91 *Singapore IJCNN*
5665 Oberlin Dr
Suite 110
San Diego, CA 92121
619 453 6222
fax 619 535 3880

We expect dynamic conferences in both Seattle and Singapore. We hope you can attend both.

Robert J. Marks II, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering
University of Washington, FT-10
Seattle, WA 98195
marks@milton.u.washington.edu
FAX:(206) 543-3842

Toshio Fukuda, Chair
Singapore IJCNN Program Comm.
Nagoya University
Department of Mechanical Engineering
Furo-Cho, Chikusa-Ku
Nagoya, Japan
FAX: (052) 781-9243
d43131a@nucc.nagoya-u.ac.jp

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Peter Wiesner

Name of Firm: IEEE

Location of Firm: Piscataway, NJ

Facsimile Telephone Number: 908-981-1686

From: R Wagner Phone: 206-543-6061

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 1 pages.

Date: 4/25 Time: _____

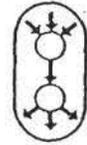
Comments: e mail:
marks@uw-isdl.ee.washington.edu

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

April 24, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Ms. Evangelia Tzanakou
Biomedical Engineering
Rutgers University
P. O. Box 909
Piscataway, NJ 08854

Dear Litsa:

Here is the material for registration of the Council. Thank you for agreeing to do the paperwork for the Council.

Sincerely,

A handwritten signature in cursive that reads 'Bob' with a small 'w' underneath.

Robert J. Marks II, President
IEEE Neural Networks Council

Enclosures



IEEE

TECHNICAL ACTIVITIES BOARD

William R. Tackaberry, Chairman
TAB LIAISON COUNCIL

PLEASE REPLY TO:
25 Beech Avenue
Madison, NJ 07940 USA
Tel.: (201) 377-7371

April 11, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Dept. of Electrical Engineering
University of Washington, MS FT-10
Seattle, WA 98195

Dear Prof. Marks:

To help identify non-IEEE entities that have technical interests similar to yours, the following are enclosed:

- AAES Directory of Engineering Societies and Related Organizations - 13th Edition
- AAES 1990/91 Supplement to 13th Edition

These two documents include approximately 1000 organizations worldwide.

You'll note IEEE is listed as a single entity. At no charge, individual Societies or Councils can be listed in future AAES editions. Information on how this may be done is included with my letter.

Such a listing seems desirable but the exercise of such an option is up to you.

With best personal regards,

A handwritten signature in cursive script that reads "Tack".

W. R. Tackaberry
Chairman, TAB Liaison Council

Enclosure
WRT/pat

cc: Prof. H. Vincent Poor



AMERICAN ASSOCIATION OF ENGINEERING SOCIETIES

1111 NINETEENTH STREET, N.W. • SUITE 608 • WASHINGTON, DC 20036-3690

(202) 296-2237 • FAX (202) 296-1151

Please look through the indexes of these books.

**IS YOUR ORGANIZATION LISTED IN THE DIRECTORY OF ENGINEERING SOCIETIES
AND RELATED ORGANIZATIONS?**

If it is not, we would like to consider including it in the next edition of the book. Please help us:
Complete the enclosed questionnaire and return it to our office!

ID# _____
(leave blank: for office use.)

DIRECTORY OF ENGINEERING SOCIETIES

Information request form

Please give complete information wherever possible. Attach additional sheets if necessary. Please return completed form to our office as soon as possible.

Organization Name *(Native language)*:

Acronym:

Organization name *(English translation)*:

Address:

Telephone:

(include and identify prefixes)

FAX, telex, etc.:

(specify which; include all)

Chief Executive Officer *(staff)*: Dr. / Dr.Ing. / Mr. / Prof. / Ms. / Other: _____

full name:

(first name)

(middle initial)

(last name)

and title:

(i.e., Executive Director, Secretary General, etc.)

Other management staff *(examples given below - provide individuals' names and titles, please)*:

Publications:

Public Relations:

Membership:

Others:

Does your organization have elected officers? If yes, please give their names and position titles of those in office June 30 1990 - June 30 1991. Include the dates of their terms of office also.

from: / / to: / /

name

title

from: / / to: / /

name

title

to list additional officers, use back of page

(over, please)

MEMBERSHIP: Describe briefly your membership requirements.

OBJECTIVES: Describe briefly the objectives of your organization.

MEETINGS, EXHIBITS AND CONVENTIONS: Describe any conventions, meetings or exhibits your organization sponsors regularly. Include frequency and size of attendance.

MAILING LISTS

Do you offer any mailing lists (i.e., individual members, corporate sponsors, advertisers, etc.) for rent? Please include the size of the lists, formats in which they are available, cost of rental, as well as the nature of the list:

FEDERATION MEMBERSHIPS

Does your organization belong to any federations of organizations, either national or international? Please provide their names and, when possible, their acronyms (i.e., WFEO, FENTO, UPADI)

Can you recommend other organizations which should be included in the *Directory of Engineering Societies and Related Organizations*? If so, please provide their names and addresses, and the name and title of the chief executive officer, on the back of this form.

If we are in need of assistance to clarify information you have sent us, please assist us by giving us your name and title. Thank you for taking the time to assist us!

name

title

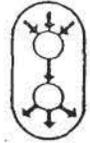
Please return this completed form as soon as possible:

AAES
1111 19th St., NW
Suite 608
Washington DC 20002

or send by FAX: (202)296-1151



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

April 24, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dudley Kay, Executive Editor
IEEE Press
P. O.Box 1331
Piscataway, NJ 08855-1331

Dear Dudley:

The IEEE Neural Networks Council is enthusiastic about sponsorship of the neural networks books by Dr. Lau and Drs. Lau and Sanchez-Sinencio. If sponsorship is awarded, the Council commits to publicizing the books in our newsletter, in consecutive issues, for at least one year. The Council will also supply visibility for the book at our conferences for at least a year.

I know that the review of the volumes is underway. The reviewers listed may be used as an additional resource if need be.

Sincerely,

A handwritten signature in cursive script that reads "Robert J. Marks II".

Robert J. Marks, President
IEEE Neural Networks Council

cc: Toshio Fukuda, NNC Publications Chair
Stamatios Kartalopoulos, NNC Liaison to IEEE Press
Russ Eberhart, NNC Vice President
Wes Snyder, NNC Newsletter Editor
Evangelia Tzanakou, NNC Secretary

file

AT&T Bell Laboratories
Rm 1E-220A
1 Whippany Rd
Whippany, NJ 07981
Phone: (201) 386-4289
Fax: (201) 386-6346
March 28, 1991

Professor Robert J. Marks, II, President
IEEE Neural Networks Council
Department of Electrical Engineering
University of Washington
FT-10
Seattle, WA 98195

Dear Professor Marks,

Thank you for your letter dated 2/25/91. I agree that both books edited by Dr. Lau are appropriate for sponsorship by the NN Council.

In pursuing this, I contacted Dr. Lau who also agreed with the above statement as follows:

- A. "Neural Networks" project, a Reprint Book edited by Dr C. Lau.

Dr. Lau agrees to have NN Council sponsor his book. In addition, Mr Dudley Kay informed me that, based on his conversation with Dr Reed Crone, the Proceedings agrees to have NNC sponsoring this book. My recommendation is that NNC sponsors this book. If NNC agrees with my recommendation, then, the IEEE Press Confirmation of Sponsorship form (attached) should be filled out and sent to IEEE. The form also contains terms of the agreement.

- B. The Reprint Book edited by E. Sanchez-Sinencio and C. Lau is already sponsored by the IEEE Circuits and Systems Society.

Dr. Lau agrees to have NN Council co-sponsoring this book **provided** that the C&S Society agrees.

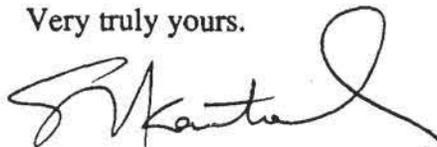
Dr. Lau also recommended that the matter should also be discussed with Prof. R. Newcomb and Prof. Sanchez-Sinencio. Prof. Newcomb agrees, based on my conversation with him. In addition, I have sent a letter to Prof. Sanchez-Sinencio

- 2 -

explaining our co-sponsoring interests. Prof Sanchez promised me that he'll get back to me in writing soon. For the time being, I'm awaiting his reply.

- C. With respect to Jim Bezdek's recommendation mentioned in your letter, I will act as soon as I receive it.

Very truly yours.



Stamatios V. Kartalopoulos
NNC Liaison to IEEE Press

CC:

Toshio Fukuda, NNC Publications Chair
Russ Eberhart, NNC Vice President
Evangelia Micheli-Tzanakou, NNC secretary



IEEE PRESS

Confirmation of Sponsorship

Return to:
Dudley Kay
Executive Editor
446 Hoe Lane,
Piscataway, NJ 08855-1331
FAX - 908-981-1866

When signed by an authorized representative of a sponsoring **IEEE** entity and returned to the Executive Editor of the **IEEE PRESS**, this form will serve to confirm sponsorship of the following **PRESS** book project:

Book Title: 'Neural Net' reprint book

Author/
Editor(s): Sanchez-Sinencio and Lau

Book Type: paper reprints Initiated by: _____

Please complete the information requested below and signify the level of sponsorship desired:

Confirmation of Sponsor's Technical Review of the Book Proposal

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Toshio Fukuda, Chair
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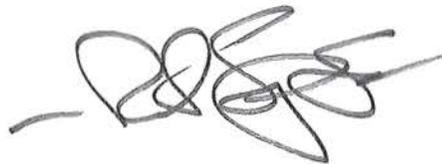
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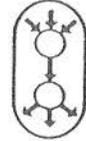
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President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 17, 1991

Roy S. Nutter
West Virginia University
Dept. of Elec. & Cptr. Engineering
P.O. Box 6101
Morgantown, WV 26506-6101

FAX: (304) 293-5024

Dear Roy:

URGENT!

The NNC ExCom has been moved to Monday, April 22, at 10 AM (PDT).

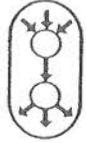
Best regards,


Bobby Marks II

RJM:rw



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

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April 17, 1991

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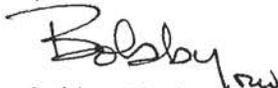
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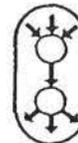
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April 16, 1991

Russ Eberhart, NNC VP
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20707

Dear Russ:

The attached is FYI.

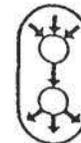
Sincerely,

Robert J. Marks II, President
Neural Networks Council

Attachment



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

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Seattle, WA 98195 USA
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April 16, 1991

Russ Eberhart, NNC VP
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Johns Hopkins Road
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Dear Russ:

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Sincerely,

Robert J. Marks II, President
Neural Networks Council

Attachment

The Fourth International Conference on Genetic Algorithms

July 13-16, 1991

University of California, San Diego

The Fourth International Conference on Genetic Algorithms (ICGA-91) will be held on July 13-16, 1991 at the University of California, San Diego in La Jolla, CA. This meeting brings together an international community of scientists and engineers from academia and industry interested in algorithms suggested by the evolutionary process of natural selection. Topics of particular interest include genetic algorithms and classifier systems, evolution strategies, machine learning and optimization using these systems, and their relations to other learning paradigms (e.g., connectionist networks). Papers discussing how genetic algorithms and classifier systems are related to biological modeling issues (e.g., evolution of nervous systems, computational ethology, artificial life) have been encouraged.

ICGA-91 Conference Committee:

Conference Co-Chairpersons: *Kenneth A. De Jong*, George Mason University
J. David Schaffer, Philips Labs

Vice Chairperson and Publicity: *David E. Goldberg*, University of Illinois

Program Co-Chairpersons: *Richard K. Belew*, UCSD,
Lashon B. Booker, MITRE

Financial Chairperson: *Gilbert Syswerda*, BBN

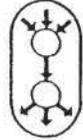
Local Arrangements: *Richard K. Belew*, UCSD

ICGA-91 Program Committee

Emile Aarts, NV Phillips
Richard K. Belew, UCSD
Lashon B. Booker, MITRE
Yuval Davidor, Weizmann Institute
Lawrence Davis, Tica Associates
Kenneth A. De Jong, George Mason University
Larry J. Eshelman, Philips Labs
Stephanie Forrest, University of New Mexico
John J. Grefenstette, Naval Research Laboratory
David E. Goldberg, University of Illinois
Pauline Hogeweg, University of Utrecht
John H. Holland, University of Michigan
Gunar E. Liepins, Oak Ridge National Laboratory
Heinz Muehlenbein, GMD, Germany
John R. Koza, Stanford University
Gregory J.E. Rawlins, Indiana University
Rick L. Riolo, University of Michigan
George G. Robertson, Xerox PARC
J. David Schaffer, Philips Labs
Stephen F. Smith, Carnegie Mellon University
Gilbert Syswerda, BBN
Tom Westerdale, University of London
Stewart W. Wilson, Rowland Institute for Science
Darrell Whitley, Colorado State University

For further information contact:

Dr. Richard K. Belew • Computer Science & Engineering Department (C-014) • University of California-San Diego • La Jolla, CA 92093 • rik@cs.ucsd.edu



NEURAL NETWORKS COUNCIL

Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

April 10, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. Prusan:

I have been authorized by the IEEE Neural Networks Council (NNC) AdCom to provide \$50,000.00 seed money to the 1992 International Joint Conference on Neural Networks (IJCNN-92). Dr. Clifford Lau (address attached) is the Organization Chair for IJCNN 92 and is currently submitting the paperwork for the conference. Dr. Patrick Shoemaker (address attached) will be the Finance Chair of this conference. An account that has three signatories: myself, Pat Shoemaker, and Clifford Lau. All of the financial transactions will be handled through Dr. Shoemaker.

Please have \$50,000.00 wired to the IJCNN 92 account. The wiring instructions are as follows:

Account name: International Joint Conference on Neural Networks (IJCNN 92)
Routing number: 322281484
Account number: 080394580
Bank Name and Address: Point Loma Federal Credit Union
Sports Arena Branch #01
3777 Sports Arena Boulevard
San Diego, CA 92110-5170

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick K. Simpson'.

Patrick K. Simpson
NNC Treasurer

Attachments: Addreses of Drs. Lau and Shoemaker

Note: This page originally FAXed with a hardcopy follow-up via mail.

CC: Marks

PKS-31-91

Names and Addresses of IJCNN 92 Account Signatories

Patrick Shoemaker
Finance Chairman, IJCNN 92
Naval Ocean Systems Center
Code 552
San Diego, CA 92152-5000
Phone: 619/553-5385

Clifford Lau
Organization Chair, IJCNN 92
Office of Naval Research
Code 114 SE
800 North Quincy Street
Arlington, VA 22217-5000
Phone: 703/696-4214

Patrick K. Simpson
Treasurer, IEEE Neural Networks Council
General Dynamics Electronics Division
P.O. Box 85310; MZ 7202-K
San Diego, CA 92186-5310
Phone: 619/573-2417

12 Mar '91

Cliff:

I have established an account for IJCNN '92 at the local credit union. You as general chairman and Pat Simpson as lead society (Neural Networks Council) Treasurer will be co-signatories. Please fill in the required joint tenant information (where indicated in red) on the enclosed account application, and forward it to Pat Simpson so he can do the same.

Pat Shoemaker



**POINT LOMA FEDERAL
CREDIT UNION**
Welcome Ashore

ALL · IN · ONE ACCOUNT APPLICATION

NEW MEMBERS: Joining Point Loma Federal Credit Union (PLFCU) requires a one-time \$5 membership fee and savings account ownership.

CURRENT MEMBERS: Where requested, provide your complete account number (including suffix, if applicable). Example: 54321S1.1.

Please print clearly, in ink, and bring to any branch.

1. MEMBER INFORMATION

Name IJCNN # 92
Last (Sr./Jr.) First Middle

Street Address Code 552, Naval Ocean Systems Center

City San Diego State CA Zip 92152-5000

Home Phone — Business Phone (619) 553-5385

Mailing Address (if different) —

City (same) State — Zip —

If New Member: —
 Qualifying Employer or Group: —

2. ACCOUNT OWNERSHIP/BENEFICIARY

All accounts established with this application are:

- Individual Accounts (only the member has access to the accounts)
- Joint Tenant Accounts (the member and the other people named have equal access to the accounts but only one is a PLFCU member)
- Joint Member Accounts (the member and the other people named have equal access to the accounts and all are PLFCU members)

Beneficiary(ies) for all of the accounts opened below:

Name(s) _____

3. ACCOUNT SELECTION

Check as many accounts and services as desired.

SAVINGS ACCOUNT

- Basic Savings: S1
(\$100 minimum deposit required for membership)

CHECKING AND MONEY MANAGEMENT ACCOUNTS

- Ready Checking: S7
- Performance Checking: S8
- Prestige Checking: S9
- Money Management Account: S3

In case of insufficient checking funds, PLFCU will attempt to honor your checks with funds transferred from:

Account # _____

CERTIFICATES OF DEPOSIT

Term	Deposit Amount
_____	_____

Source of Funds _____

Dividend Distribution _____

ELECTRONIC SERVICES

ATM card(s) requested (please initial acceptance):

Street Address: Code 552, Naval Ocean Systems Center
 City: San Diego State: CA Zip: 92152-5000
 Home Phone: — Business Phone: (619) 553-5385
 Mailing Address (if different): —
 City: (same) State: — Zip: —
 If New Member: —
 Qualifying Employer or Group: —

2. ACCOUNT OWNERSHIP/BENEFICIARY

All accounts established with this application are:

- Individual Accounts (only the member has access to the accounts)
- Joint Tenant Accounts (the member and the other people named have equal access to the accounts but only one is a PLFCU member)
- Joint Member Accounts (the member and the other people named have equal access to the accounts and all are PLFCU members)



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Account # _____

CERTIFICATES OF DEPOSIT

Term	Deposit Amount
Source of Funds	
Dividend Distribution	

ELECTRONIC SERVICES

ATM card(s) requested (please initial acceptance):

Member _____ Joint Tenant or Joint Member #1 _____ Joint Tenant or Joint Member #2 _____

1st card \$5 (waived for Ready and Prestige Checking account holders).
 Each additional card \$2.50 (waived for Prestige Checking account holders).

Free ARROW password:

- This requests a confidential password for telephone access to all available accounts under:

Member # _____

Note: Password will be released ONLY to the primary member.

Print Member Name Patrick Shoemaker Member Signature Patrick Shoemaker

Joint Tenant/Member Signature Clifford Lau Clifford Lau

Joint Tenant/Member Signature Patrick K. Simpson Patrick K. Simpson



4. ACCOUNT AGREEMENT AND AUTHORIZATION (NON TRANSFERABLE)

Each person who signs this Agreement requests that Point Loma Federal Credit Union (PLFCU) open the account(s) designated, and agrees that the following terms apply to each account:

- PLFCU is authorized to recognize any of the signatures subscribed hereto in the payment of funds or the transaction of business.
- Each account and PLFCU's practices are subject to the terms of the ELECTRONIC FUNDS DISCLOSURE STATEMENT, the ALL-IN-ONE DISCLOSURE STATEMENT, the FEE SCHEDULE, to Federal and State laws and regulations, and to PLFCU's bylaws, regulations and practices.
- I/we will pay all applicable charges and follow all practices set forth in the enclosed disclosure statements and fee schedule.
- I/we will abide by all future changes to the terms and charges for my account. I am free to decline such changes by discontinuing the transactions or account to which the changes relate.

I/we have received the disclosures and fee schedule which describe the terms and charges for each account opened with this application.

Initials:

Member PKS Joint Tenant or Joint Member #1 X Joint Tenant or Joint Member #2 PKS

5. TAXPAYER INFORMATION

The federal government requires PLFCU to obtain a Taxpayer Identification (Social Security or Employer Identification) Number under which PLFCU will report any interest earned to the Internal Revenue Service (IRS).

Social Security or Employer Identification # 13-165-6633

Unless I indicate that I am subject to backup withholding by checking the box below, by signing this agreement, under penalties of perjury, I certify that: 1) I have not been notified by the IRS that I am subject to backup withholding as a result of a failure to report all interest or dividends, or 2) I have been notified by the IRS that I am no longer subject to backup withholding.

I am subject to backup withholding.

6. MEMBERSHIP DATA

Information to help us serve you better:

Sex: Male Female

Annual Household Income:

- Less than \$20,000
- \$20,000 - \$39,999
- \$40,000 - \$59,999
- \$60,000+

Home: Own Rent

Date Joined

Employer NOSC

Occupation Engineer

Primary Financial Institution Bank of America

7. IDENTIFICATION / SIGNATURES — Member # 90543 S.I. 99.1

	Member	Joint Tenant or Joint Member #1	Joint Tenant or Joint Member #2
Name (print)	<u>Patrick A Shoemaker</u>	<u>Clifford Lau</u>	<u>Patrick K. Simpson</u>
Social Security#	<u>561-90-0640</u>	<u>576-40-2295</u>	<u>574-34-1815</u>
Driver's License # and State	<u>N2041324/CA</u>	<u>576-40-2295/VA</u>	<u>CA/C4764997</u>
Birthdate	<u>11/6/55</u>	<u>11/6/42</u>	<u>1-13-64</u>
Mother's Maiden Name	<u>Patterson</u>	<u>Young</u>	<u>Simpson</u>

I/we agree to conform to PLFCU's bylaws and amendments and subscribe to at least one share. Franklin

Member	X	<u>Patrick A Shoemaker</u>	Date	<u>3/5/91</u>
Joint Tenant/Member #1	X	<u>Clifford Lau</u>	Date	<u>3/19/91</u>
Joint Tenant/Member #2	X	<u>[Signature]</u>	Date	<u>3/31/91</u>

FOR PLFCU USE ONLY — Account #s 90543 S.I. 99.1

Referred: BR# 2 OP# OT

Processed: BR# _____ OP# _____

PKS

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Information to help us serve you better:

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Date Joined

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- \$40,000 - \$59,999
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Occupation Engineer

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Name (print) <u>Patrick A. Shoemaker</u>	<u>Clifford Lau</u>	<u>Patrick K. Simpson</u>
Social Security # <u>561-90-0640</u>	<u>576-40-2295</u>	<u>574-34-1815</u>
Driver's License # and State <u>N2041324/CA</u>	<u>576-40-2295/VA</u>	<u>CA/C4764997</u>
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Mother's Maiden Name <u>Patterson</u>	<u>Young</u>	<u>Simpson</u>

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Member X <u>Patrick A. Shoemaker</u>	Date <u>3/5/91</u>
Joint Tenant/Member #1 X <u>Clifford Lau</u>	Date <u>3/19/91</u>
Joint Tenant/Member #2 X <u>[Signature]</u>	Date <u>3/31/91</u>

FOR PLFCU USE ONLY — Account #s 90543 S.I. 99.1

Referred: BR# 2

OP# OT

Processed: BR#

OP#

ID Verified: dy 93 (PS)

Membership Officer Approval:

Other:

Date Opened:

Closed:



AS

XAS

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Joint Tenant/Member #1 X <u>Clifford Lau</u>	Date <u>3/19/91</u>
Joint Tenant/Member #2 X <u>[Signature]</u>	Date <u>3/31/91</u>

FOR PLFCU USE ONLY — Account #s 90543 S.I. 99.1

Referred: BR# 2 OP# OT

Processed: BR# _____ OP# _____

ID Verified: dg 93 (PS)

Membership Officer Approval: _____ Other: _____

Date Opened: _____ Closed: _____



Member

AS

L

JOINT TENANT OF
Joint Member

JOINT TENANT OF
Joint Member

JOINT TENANT OF
Joint Member

XVKS

Robert J. Marks II Library Archive

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FOR PLFCU USE ONLY — Account #s 90543 S.I. 99.1

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Membership Officer Approval: _____ Other: _____

Date Opened: _____ Closed: _____



1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

File

MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 1

ENTIRE INSTITUTE TOTALS

HIGHER GRADES										TOTALS							
ABBR	SOC SUB	PUB ID	STUDENT	* REG	RET	MIN	UNEMP	TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
SP	01	1001	2647	10053	95	81	54	10283	9	12939	4211	17150					157
		1002	4	110	42	81	50	10024	9				23	12697	4190	16887	
		1381	132	594	2	5	1	602	0					121	49	170	
		1382	0	3	0	0	0	3	0				2	736	345	1081	
		1491	250	970	0	13	3	986	3				2	1241	360	1601	
		1492	1	4	0	0	0	4	0					5	2	7	
BT	02	1011	255	1992	132	3	10	2137	2	2394	627	3021					178
		1012	1	32	72	3	9	1928	2				1	2185	623	2808	
		1013	1	1	1	0	1	34	0					35	10	45	
AP	03	1041	1133	6206	177	56	34	6473	2	7608	2179	9787					173
		1042	4	86	126	56	33	6223	2				9	7364	2166	9530	
		1043	1	5	0	0	1	92	0					96	32	128	
CAS	04	1051	2376	9860	102	112	58	10132	2	12510	3813	16323					167
		1052	0	97	28	66	29	5249	2				13	6479	2636	9115	
		1053	0	0	0	0	0	0	0					97	38	135	
		1054	0	0	0	0	0	0	0					0	0	0	
		1391	771	3033	1	38	17	3089	1				4	3865	1720	5585	
		1392	1	29	0	0	1	30	0					31	17	48	
		1491	184	794	4	26	3	827	1				2	1014	294	1308	
		1492	2	6	0	0	0	6	0					8	1	9	
		1531	115	828	3	6	5	842	0				1	958	1	959	
		1532	0	4	0	0	0	4	0					4	0	4	
		3131	604	5240	37	55	37	5369	1				4	5978	3205	9183	
		3132	0	10	0	0	0	10	0					10	3	13	
		4101	569	3250	11	27	17	3305	0				11	3885	1421	5306	
		4102	2	54	0	1	0	55	0					57	23	80	
		4301	0	0	0	0	0	0	0					62	62	62	
NPS	05	1061	215	2266	84	0	13	2371	127	2713	740	3453					99
		1062	2	24	41	5	10	1632	94				1	1860	556	2416	
		1071	102	831	9	4	4	848	43				1	27	9	36	
		1072	2	11	1	0	0	12	0					994	284	1278	
		1331	0	142	1	0	0	143	19					14	8	22	
		1382	0	1	1	0	0	2	0					170	39	209	
		1383	0	0	0	0	0	0	0					2	0	2	
VT	06	1081	304	2572	131	5	15	2723	3	3030	788	3818					121
		1082	0	29	88	5	15	2579	3				1	2887	784	3671	
		1083	0	0	0	0	0	0	0					29	8	37	
R	07	1091	154	3171	84	11	29	3295	9	3458	1259	4717					98
		1092	1	34	1	0	0	35	0				6	3338	1246	4584	
		1451	39	1300	7	4	9	1320	4					36	22	58	
		1452	0	10	0	0	0	10	0					1363	2125	3488	
CL	08	1491	576	3845	166	30	33	4075	1	4652	1817	6469		10	11	21	152

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ENTIRE INSTITUTE TOTALS

MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 2

HIGHER GRADES										TOTALS							
ABBR	SOC SUB	PUB ID	STUDENT	* REG	RET	MIN	UNEMP	SUB # TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
		1021	674	3693	113	30	31	3867	1				7	4449	1006	6254	
		1022	2	61	2	0	2	65	0					67	20	87	
IM	09		480	4135	129	32	19	4315	3	4798	1486	6284					163
		1101	400	3960	72	32	10	4090	3				3	4576	1477	6053	
		1102	0	68	1	0	1	70	0					70	15	85	
		1521	3	36	0	0	0	36	0					39		39	
		4301	5	81	1	0	0	82	0					87	32	119	
		4302	0	2	0	0	0	2	0					2		2	
AES	10		933	6149	239	20	39	6447	5	7385	2755	10140					237
		1111	931	5917	143	20	37	6117	5				7	7060	2730	9790	
		1112	3	96	5	0	2	103	0					106	31	137	
		1351	11	146	0	1	1	148	0				1	160	64	224	
		1352	0	0	0	0	0	0	0					2		2	
		4301	1	81	0	0	1	82	0					83	36	119	
		4302	0	1	1	0	0	2	0					2	2	4	
IT	12		1116	3992	50	0	24	4074	0	5190	1653	6051					51
		1121	1115	3896	36	8	24	3964	8				5	5092	1644	6736	
		1122	2	64	3	0	0	67	0					69	25	94	
		1351	45	290	1	0	3	294	2				1	342	110	460	
		1352	0	3	1	0	0	4	0					4	5	9	
		1491	80	273	1	2	5	281	3				1	365	83	448	
		1492	1	1	0	0	0	1	0					2		2	
IE	13		536	4228	94	57	26	4405	2	4943	2253	7196					119
		1131	535	4097	63	57	26	4243	2				1	4781	2247	7028	
		1132	1	51	0	0	0	51	0					52	13	65	
		1491	11	69	0	1	1	71	0					82	23	105	
		1492	0	1	0	0	0	1	0					1		1	
EM	14		484	6976	154	52	57	7239	118	7041	2739	10580					183
		1141	484	6021	92	51	57	7021	118				5	7628	2732	10360	
		1142	0	43	0	1	0	44	1					45	16	61	
EG	15		1024	7773	103	59	39	7974	0	9004	2730	11742					162
		1151	701	5262	32	35	24	5353	3				9	6066	1602	7668	
		1152	1	65	1	0	2	68	0					69	31	100	
		1451	421	4548	44	39	21	4652	5				1	5079	4824	9903	
		1452	0	17	0	0	0	17	0					17	13	30	
		1521	35	101	1	3	2	107	1				1	144		144	
		3041	1010	7560	69	59	37	7733	6				6	8763	2736	11499	
		3042	1	52	1	0	2	55	0					56	27	83	
		3131	212	3710	28	30	18	3786	4					4002	2398	6400	
		3132	0	8	0	0	1	9	0					9	3	12	
		4101	108	2031	8	14	10	2063	2				6	2179	807	2986	
		4102	0	14	0	0	3	17	0					17	7	24	
		4301	12	147	1	2	1	151	0					163	85	248	
		4302	0	1	0	0	0	1	0					1	1	2	

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MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 3

ENTIRE INSTITUTE TOTALS

HIGHER GRADES

TOTALS

ABBR	SOC SUB	PUB ID	STUDENT	REG	RET	MIN	UNEMP	TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
		4601	71	618	4	9	3	634	2				1	708	310	1018	
		4602	1	3	0	0	0	3	0					4	7	11	
C	16		10166	49036	674	779	334	50823	18460	79449	32076	111525					436
		1161	1276	6517	41	61	37	6656	1357				8	9297	4135	13432	
		1162	1	153	2	0	2	157	7					165	63	228	
		1171	871	6539	23	66	26	6654	3858				18	11401	6021	17422	
		1172	1	124	1	0	0	125	12					138	53	191	
		1351	751	3237	4	35	21	3297	853				3	4904	2877	7781	
		1352	1	48	1	0	0	49	7					57	27	84	
		1471	379	2733	10	74	16	2833	1877				4	5093	3014	8107	
		1472	0	21	0	0	0	21	3					24	15	39	
		1501	861	3134	9	68	17	3228	1319				1	5409	2499	7908	
		1502	2	24	0	1	0	25	2					29	10	39	
		3001	10142	48477	511	777	325	50090	18441				40	78713	32045	110758	
		3002	5	246	6	2	7	261	17					283	108	391	
		3061	1037	5858	19	57	28	5922	2813				14	9826	5196	15022	
		3062	0	41	1	0	0	42	2					44	35	79	
		3071	1246	8899	36	134	66	9135	1952				9	12342	5990	18332	
		3072	0	92	2	0	2	96	5					101	41	142	
		3111	515	3203	9	26	20	3258	593				1	4367	2927	7294	
		3112	0	27	1	0	0	28	2					30	20	50	
		3121	1271	11748	47	122	58	11975	7371				20	20637	8734	29371	
		3122	0	79	2	0	0	81	8					89	37	126	
		3151	719	5783	28	118	39	5968	2788				9	9484	5464	14948	
		3152	0	45	1	0	0	46	7					53	25	78	
		4101	68	945	7	10	9	971	38				1	1078	459	1537	
		4102	0	20	0	0	0	20	0				1	21	9	30	
MTT	17		1210	7645	138	72	47	7902	6	9118	2601	11719					139
		1101	1113	7154	95	68	41	7308	6				15	8442	2453	10895	
		1102	1	111	3	0	3	117	0					118	26	144	
		1521	21	100	1	3	1	105	0					126		126	
		1522	0	1	0	0	0	1	0					1		1	
		4101	236	768	10	9	6	793	0				3	1002	456	1458	
		4102	0	9	0	0	1	10	0					10	5	15	
		4301	20	219	1	4	2	226	0					246	110	356	
		4302	0	5	1	0	1	7	0					7	2	9	
EMB	16		1271	4677	133	41	25	4876	117	6264	2186	8450					143
		1191	466	2652	33	26	10	2721	62				6	3255	1055	4310	
		1192	1	33	1	0	0	34	0					35	10	45	
		1351	71	198	1	1	2	202	2				1	276	129	405	
		1352	0	0	0	0	0	0	0					1		1	
		1381	225	840	3	9	7	859	12				2	1098	455	1553	
		1382	1	11	0	0	0	11	0					12	3	15	
		1491	164	359	2	4	3	368	9				1	542	204	746	

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Robert J. Marks II Library Archive

MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 4

ENTIRE INSTITUTE TOTALS

HIGHER GRADES											TOTALS						
ABBR	SOC SUB	PUB ID	STUDENT	REG	RET	MIN	UNEMP	SUB TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
		1492	0	5	0	0	0	5	0					5	1	6	
		3091	1262	4538	93	40	24	4695	117				6	6080	2188	8268	
		3092	2	33	1	0	1	35	0					37	10	47	
COM	19		3464	21928	456	245	139	22768	226	26458	7260	33718					321
		1201	1184	8193	77	84	47	8401	54				17	9656	2964	12620	
		1202	2	118	0	0	2	120	0					122	43	165	
		1411	787	5960	30	74	36	6100	63				7	6957	2176	9133	
		1412	2	56	0	0	2	58	0					60	20	80	
		1491	109	664	1	12	4	681	6					796	328	1124	
		1492	0	5	0	0	0	5	0					5	3	8	
		1521	13	66	1	0	2	69	0					82	1	83	
		1522	1	1	0	0	0	1	0					2		2	
		3021	3447	21570	328	245	135	22206	226				24	25903	7248	33231	
		3022	3	134	0	0	3	137	0					140	54	194	
		3171	509	6733	34	64	36	6867	123				4	7503	2492	9995	
		3172	2	39	0	0	1	40	0					42	21	63	
		3191	219	2541	24	29	15	2609	43				1	2872	769	3641	
		3192	0	11	0	0	0	11	0					11	3	14	
		4101	20	269	2	0	3	282	0					302	133	435	
		4102	0	7	0	0	0	7	0					7	1	8	
		4301	56	644	4	9	2	659	1					716	319	1035	
		4302	0	7	0	0	1	8	0					8	3	13	
UFFC	20		162	1631	38	7	5	1681	4	1847	515	2362					49
		1211	132	1503	18	6	5	1532	4				6	1674	437	2111	
		1212	1	19	2	0	0	21	0					22	8	30	
		1351	1	16	0	0	0	16	0					17	17	34	
		1381	6	96	0	0	1	97	0					103	33	136	
		1382	0	2	0	0	0	2	0					2		2	
		1501	0	9	0	0	0	9	0					9		9	
		1522	0	1	0	0	0	1	0					1		1	
		4101	33	131	1	2	0	134	0				1	168	99	267	
		4102	0	1	0	0	0	1	0					1	2	3	
		4301	0	25	0	0	0	25	0					25	17	42	
CHMT	21		130	3015	73	21	17	3127	34	3341	1431	4772					77
		1221	176	2925	55	21	17	3018	34				4	3232	1422	4654	
		1222	0	32	1	0	0	33	0					33	19	52	
		1451	70	1618	31	19	8	1676	24					1770	1636	3406	
		1452	0	8	0	0	0	8	0					8	4	12	
		1521	4	33	1	1	0	35	0					39		39	
		4101	40	278	0	0	0	278	2				1	321	228	549	
		4102	0	4	0	0	0	4	0					4	3	7	
OE	22		197	1471	88	2	7	1568	11	1776	627	2403					150
		4201	197	1355	38	2	7	1402	11				1	1611	623	2234	
		4202	0	17	2	0	0	19	0					19	8	27	
CS	23		2016	7049	60	82	40	7231	18	9265	3179	12444					66

1991 IEEE Neural Networks Council Document
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MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 5

ENTIRE INSTITUTE TOTALS

HIGHER GRADES

TOTALS

ABBR	SOC SUB	PUB ID	STUDENT	*REG	RET	MIN	UNEMP	SUB * TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
		1231	2011	693	41	82	39	7096	18				15	9140	3167	12307	
		1232	3	73	1	0	1	75	0					78	24	102	
		1351	43	222	0	4	3	229	1					273	131	404	
		1352	0	0	1	0	0	1	0					1		1	
		1491	170	587	4	8	1	600	1			2	773	185	958		
		1492	1	3	0	0	0	3	0					4		4	
RA	24	1346	3724	39	9	27	3799	66	66	5211	2324	7535					44
		1461	1345	3656	26	9	27	3718	65				14	5142	2313	7455	
		1462	1	38	0	0	0	38	1					40	19	59	
		1491	89	290	1	1	2	294	10					393	136	529	
		1492	0	2	0	0	0	2	0					2		2	
E	25	248	2296	81	8	13	2398	4	4	2650	771	3421					87
		1241	248	2212	56	8	13	2289	4				2	2543	767	3310	
		1242	0	26	0	0	0	26	0					26	6	32	
PC	26	153	1863	76	12	19	1970	64	64	2187	775	2962					66
		1251	152	1805	47	12	19	1884	64					2100	771	2871	
		1252	1	26	1	0	0	27	0					28	14	42	
EMC	27	182	3085	108	17	25	3235	4	4	3421	847	4268					74
		1261	182	3005	84	17	24	3130	4				3	3319	845	4164	
		1262	0	36	0	0	1	37	0					37	13	50	
SMC	28	872	3305	59	12	19	3395	40	40	4307	1243	5550					44
		1271	869	3241	40	12	19	3312	40				1	4222	1238	5460	
		1272	2	42	2	0	0	44	0					46	15	61	
		1351	91	327	2	5	1	335	5					431	164	595	
		1352	0	3	0	0	0	3	0					3	1	4	
		1491	151	429	4	4	4	441	11					603	148	751	
GRS	29	278	1820	40	7	10	1877	66	66	2221	699	2920					42
		1291	277	1776	22	7	10	1815	66				4	2162	692	2854	
		1292	1	19	3	0	0	22	0					23	11	34	
SIT	31	238	1884	94	5	14	1997	6	6	2241	860	3101					73
		1401	238	1823	72	5	14	1914	6					2158	857	3015	
		1432	0	11	0	0	0	11	0					11	6	17	
PE	31	1131	18323	1338	328	60	20049	4	4	21184	4235	25419					1293
		1401	155	2335	44	72	6	2507	0				12	2674	667	3341	
		1422	1	66	2	0	0	68	0					69	15	84	
		1431	165	3209	59	95	10	3373	0				12	3550	809	4359	
		1432	1	82	2	0	0	84	0					85	17	102	
		1441	257	3584	46	108	10	3748	0				12	4017	1057	5074	
		1442	1	85	2	0	0	87	0					88	16	104	
		1521	18	112	1	6	0	119	0					137		137	
		1522	0	1	0	0	0	1	0					1		1	
		3081	1127	17566	762	328	60	18656	4				3	19790	4242	24032	
		3282	2	84	4	1	0	89	0					91	18	109	
DEI	32	79	1805	85	18	7	1915	10	10	2004	405	2409					90

1991 IEEE Neural Networks Council Document
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ENTIRE INSTITUTE TOTALS

MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 6

HIGHER GRADES										TOTALS								
ABBR	SOC SUB	PUB ID	*STUDENT	*REG	RET	MIN	UNEMP	SUB TOTAL	*AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR YR	PRIOR CPYS	ACT/ARR CPYS	LTD SRVC
		1301	79	1710	63	18	7	1806	10					1903	406	2303		
		1302	0	19	0	0	0	19	0					19	3	22		
		1521	2	16	0	0	0	16	0					18		18		
		3141	0	1	0	0	0	1	0					1		1		
MAG	33		248	2904	110	9	12	3035	68	3351	824	4175					78	
		1311	247	2821	85	9	11	2926	67				3	3243	818	4061		
		1312	1	29	2	0	1	32	1					34	13	47		
		1521	11	98	4	0	1	103	1					115		115		
		2331	0	52	0	0	0	52	2					54	18	72		
IA	34		420	8710	517	73	28	9328	3	9751	2048	11799					474	
		1321	420	8387	313	73	28	8801	3				4	9228	2041	11269		
		1322	0	66	1	0	0	67	0					67	15	82		
PEL	35		538	3483	45	29	19	3576	0	4114	1259	5373					24	
		1521	6	31	0	0	0	31	0					37		37		
		4501	535	3444	34	29	19	3526	0				3	4064	1255	5319		
		4502	2	29	1	0	0	30	0					32	11	43		
LEO	36		1249	4128	44	30	15	4217	49	5515	2423	7938					41	
		1341	390	2212	17	13	10	2252	43				1	2686	1239	3925		
		1342	2	24	1	0	1	26	0					28	16	44		
		1481	1245	4053	31	30	14	4128	49				5	5427	2428	7855		
		1482	2	29	1	0	1	31	0					33	19	52		
		1491	49	115	0	0	0	115	2					166	91	257		
		1492	1	1	0	0	0	1	0					2	1	3		
		3131	165	1508	13	7	5	1533	21					1719	1559	3278		
		3132	1	2	0	0	0	2	0					3	5	8		
		3191	64	385	0	5	2	392	1				1	458	164	622		
		3192	2	2	0	0	0	2	0					4	2	6		
		4171	17	81	1	0	0	82	1					100	75	175		
		4172	0	2	0	0	0	2	0					2	3	5		
		4301	161	977	4	12	3	996	5				1	1163	429	1592		
		4302	2	6	0	0	0	6	0					8	7	15		
		4601	50	87	0	0	1	88	0					138	84	222		
		4602	0	2	0	0	0	2	0					2	2	4		
		4931	0	0	0	0	0	0	0									
PAMI PRINTED-	1351	1013	4436	8	46	31	4521	863					6	6403	3500	9903		
PAMI MICRO-	1352	1	54	3	0	0	57	7						65	36	101		
MIC PRINTED-	1361	371	1672	6	14	9	1701	31					4	2107	872	2979		
MIC MICRO-	1362	1	17	1	0	0	18	0						19	7	26		
JSSC PRINTED-	4101	1061	7753	40	70	45	7908	43					23	9035	3678	12713		
JSSC MICRO-	4102	2	111	0	1	4	116	0					1	119	53	172		
JLT PRINTED-	4301	255	2174	11	27	9	2221	6					1	2483	1090	3573		

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MEMBER SOCIETY AND SUBSCRIPTION STATISTICS AS OF 02/28/91

PAGE NO. 7

ENTIRE INSTITUTE TOTALS

H I G H E R G R A D E S										T O T A L S							
ABBR	SOC SUB ID	PUB ID	STUDENT	REG	RET	MIN	UNEMP	TOTAL	AFFILS	*ACTIVE MEMBS	ARREARS MEMBS	ACT/ARR MEMBS	EXTRA CPYS	ACTIVE CPYS	ARR PRIOR YR CPYS	ACT/ARR CPYS	LTD SRVC
JLT	MICRO	4302	2	22	2	0	2	26	0					26	17	45	
JECH	PRINTED	4601	121	705	4	9	4	722	2				1	846	394	1240	
JECH	MICRO	4602	1	5	0	1	0	6	0					6	9	15	
MC&D	PRINTED	3131	981	10458	78	92	60	10688	26				4	11699	7162	18861	
MC&D	MICRO	3132	1	20	0	0	1	21	0					22	11	33	
SM	PRINTED	1451	530	7466	82	62	38	7648	33				1	8212	8585	16797	
SM	MICRO	1452	0	35	0	0	0	35	0					35	28	63	
NN	PRINTED	1491	1257	4550	17	71	26	4664	46				8	5975	1852	7827	
NN	MICRO	1492	6	28	0	0	0	28	0					34	8	42	
R-ASC	PRINTED	1521	113	602	9	13	6	630	2				1	746	1	747	
R-ACS	MICRO	1522	1	4	0	0	0	4	0					5		5	
TOT SOC MEMBERSHIP			37881	227002	6037	2340	1332	236711	19557	294149	97646	391795					5872
CAS	54		47	624	1	0	3	628	71	746	497	1243					1
		1051	8	67	0	0	0	67	7				1	83	59	142	
		1391	39	554	0	0	3	557	66					662	442	1104	
		1392	0	8	0	0	0	8	1					9	4	13	
C	66		224	2117	10	0	11	2138	18	2380	1439	3819					
		3061	64	430	2	0	2	434	8					506	268	774	
		3062	0	1	0	0	0	1	0					1		1	
		3071	72	753	2	0	4	759	1					832	512	1344	
		3072	0	11	0	0	0	11	0					11	2	13	
		3111	35	252	0	0	2	254	0					289	195	484	
		3112	0	0	0	0	0	0	0						2	2	
		3121	30	232	2	0	1	335	2					367	288	655	
		3122	0	2	0	0	0	2	0					2	2	4	
		3151	42	585	5	0	3	593	10					645	412	1057	
		3152	0	2	0	0	0	2	0					2	3	5	
MTT	67		3	14	0	0	0	14	1	18		18					
		1511	3	14	0	0	0	14	1					18		18	
EMJ	63		58	316	3	0	2	321	14	393	219	612					
		1191	58	312	3	0	2	317	14				1	390	218	608	
		1192	0	5	0	0	0	5	0					5	2	7	
COM	69		188	2546	13	0	17	2576	629	3393	1670	5063					
		3171	154	2305	12	0	13	2330	622				2	3108	1522	4630	
		3172	0	21	0	0	0	21	1					22	9	31	
		3191	37	306	2	0	5	313	18					368	185	553	
		3192	0	1	0	0	0	1	0					1	1	2	
DEI	82		0	523	21	0	3	547	1	548	188	736					
		3141	0	521	21	0	3	545	1					546	185	731	
		3142	0	2	0	0	0	2	0					2	3	5	
NN	96		181	886	8	0	6	900	302	1383	768	2151					

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		1491	179	881	0	0	6	895	301					1375	766	2141	
		1492	2	6	0	0	0	6	1					9	2	11	
M-CC	98		66	467	2	0	4	473	18	557	238	795		555	237	792	
		3131	66	465	2	0	4	471	18					2	1	3	
		3132	0	2	0	0	0	2	0								
MIC	99		61	333	5	0	2	340	54	455	236	691		454	236	690	
		1301	61	333	5	0	2	340	53					1		1	
		1382	0	0	0	0	0	0	1								
SPEC	100		21	449	12	0	2	463	0	484	152	636		374	122	496	
		5001	19	349	6	0	0	355	0					111	32	143	
		5002	2	101	6	0	2	109	0								
PROC	101		1981	23064	591	0	128	23783	0	25764	7740	33504		25510	7679	33197	
		5011	1977	22812	576	0	124	23512	0				29	308	101	409	
		5012	5	284	15	0	4	303	0								
EMR	104		0	846	0	0	9	855	0	855	358	1213		856	356	1205	
		3011	0	641	0	0	9	650	0					5	5	10	
		3012	0	5	0	0	0	5	0								
STM	106		1874	1089	2	0	8	1099	0	2973	1006	3979		2974	1006	3980	
		5061	1874	1089	2	0	8	1099	0				1				
		5062	0	0	0	0	0	0	0						1	1	
DIR	107		0	678	20	0	3	701	21	722	420	1142		723	420	1143	
		3071	0	678	20	0	3	701	21				1				
EEA	300		0	5	0	0	0	5	0	5	2	7		4	3	7	
		6001	0	4	0	0	0	4	0								
		6002	0	1	0	0	0	1	0					1		1	
CCA	305		0	2	0	0	0	2	0	2	2	4		2	2	4	
		6011	0	2	0	0	0	2	0								
ECA	315		0	4	0	0	0	4	0	4	3	7		4	3	7	
		6031	0	4	0	0	0	4	0								
ECP	327		0	1	0	0	0	1	0	1	1	2		1	1	2	
		6041	0	1	0	0	0	1	0								
PA	321		0	1	0	0	0	1	0	1		1					
		6021	0	0	0	0	0	0	0						1	1	
		6022	0	1	0	0	0	1	0					1		1	
CPE	337		0	29	0	0	0	29	0	29	18	47		30	18	48	
		3101	0	29	0	0	0	29	0				1				
CPC	331		0	18	0	0	0	18	0	18	8	26		18	8	26	
		6111	0	18	0	0	0	18	0								
CPP	332		0	5	0	0	0	5	0	5	5	10		5	5	10	
		6121	0	5	0	0	0	5	0								
MBEC	353		0	0	0	0	0	0	0		1	1					
		6531	0	0	0	0	0	0	0						1	1	
PSA	400		0	56	1	0	0	57	0	57	29	86		57	29	86	
		6201	0	56	1	0	0	57	0								
RC	401		1	26	0	0	1	27	0	28	16	44					

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PAGE NO. 9

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AI	402	6211	1	26	0	0	1	27	0	58	33	91		28	16	44		
		6221	1	56	0	0	1	57	0					58	33	91		
TC	403	6231	1	55	0	0	0	55	1	57	27	84		57	27	84		
EC	404	6241	0	29	0	0	0	29	0	29	15	44		29	15	44		
SD	405	6251	1	40	0	0	0	40	0	41	17	58		41	17	58		
MP	406	6261	0	11	0	0	0	11	0	11	7	18		11	7	18		
EI	407	6271	1	17	0	0	0	17	0	18	12	30		18	12	30		
AP	408	6281	2	31	0	0	0	31	0	33	7	40		33	7	40		
UE	409	6291	0	32	0	0	0	32	0	32	13	45		32	13	45		
CEP	410	6301	1	4	0	0	0	4	0	5	6	11		5	6	11		
CCS	411	6311	1	21	0	0	0	21	1	23	12	35		23	12	35		
SE	412	6321	1	31	0	0	0	31	2	34	27	61		34	27	61		
AM	413	6331	0	12	0	0	0	12	0	12	6	18		12	6	18		
MV	414	6341	1	16	0	0	0	16	1	18	9	27		18	9	27		
MX	415	6351	0	11	0	0	0	11	0	11	3	14		11	3	14		
MT	416	6361	1	17	0	0	0	17	0	18	4	22		18	4	22		
HIS	417	6371	1	16	0	0	0	16	0	17	12	29		17	12	29		
DA	418	6381	1	5	0	0	0	5	0	6	6	12		6	6	12		
FA	419	6391	1	6	0	0	0	6	0	7		7		7		7		
SUBSCRIPTION TOTALS			4719	34509	688	0	200	35397	1134	41250	15232	56482						
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STUDENTS			* 22249	* 48.0		* 1.7		* 2.6		* 23869		* 52.0		* 46118				
TOTAL			* 159912	* 59.0		* 1.7		* 2.8		* 109785		* 41.0		* 269697				

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	ASSP	001	100-1	425	351	39	38	285	194	436	10	11	21	58	257	170	355	926	1016		
		-2		12	12	2	2	0	3	3	0	0	0	0	5	5	0	22	22		
	HASSP	001	310-1	113	104	11	11	40	29	63	1	1	2	12	34	31	53	188	211		
		-2		6	6	0	0	0	0	0	0	0	0	2	2	0	8	8			
	BC	002	101-1	77	72	13	13	65	50	104	4	4	8	29	58	57	99	202	254		
		-2		2	2	0	0	0	3	3	0	0	0	4	3	0	9	8			
	AP	003	104-1	345	264	21	21	258	172	376	9	20	29	58	186	138	330	744	828		
		-2		5	5	1	1	0	3	3	0	0	0	4	3	0	13	12			
	M-AP	003	320-1	20	20	1	1	14	10	19	0	0	0	5	22	12	19	53	52		
		-2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	CAS	004	105-1	375	317	25	25	235	155	356	16	17	33	63	277	186	316	849	917		
		-2		18	18	2	2	0	1	1	0	0	0	8	7	0	29	28			
	CAD	004	139-1	219	187	13	13	124	89	185	9	4	13	30	125	80	164	450	478		
		-2		7	7	1	1	0	1	1	0	0	0	2	2	0	11	11			
	CVT	004	153-1	7	7	0	0	2	1	3	0	0	0	2	26	3	4	34	13		
		-2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	NS	005	106-1	269	204	15	15	161	109	241	7	7	14	17	118	41	189	518	515		
		-2		3	3	0	0	0	2	2	0	0	0	1	1	0	6	6			
	PS	006	107-1	109	86	4	4	55	33	76	1	5	6	13	55	28	69	206	200		
		-2		1	1	0	0	0	1	1	0	0	0	1	1	0	3	3			
	VT	006	100-1	102	97	15	15	103	64	154	2	7	9	25	54	42	132	242	317		
		-2		2	2	1	1	0	2	2	0	0	0	5	4	0	10	9			
	R	007	109-1	375	324	21	20	217	163	353	17	9	26	56	188	129	294	756	852		
		-2		14	14	2	2	0	2	2	0	0	0	5	4	0	23	22			
	CE	008	102-1	153	112	15	15	150	73	194	10	8	18	43	114	92	203	363	431		
		-2		4	4	1	1	0	1	1	0	0	0	4	3	0	10	9			
	IH	009	110-1	338	274	28	27	211	126	309	24	28	52	76	261	219	314	781	881		
		-2		15	15	1	1	0	3	3	0	0	0	5	5	0	24	24			
	ACS	010	111-1	313	222	18	18	179	102	244	6	5	11	36	119	92	225	557	587		
		-2		5	5	2	2	0	5	5	0	0	0	2	1	0	14	13			
	M-AES	011	316-1	71	66	2	2	22	16	32	0	1	1	6	24	20	28	114	121		
		-2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

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PAGE 2

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IT	012	112-1	357	311	22	21	207	141	330	10	12	22	38	248	117	255	780	801	
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IE	013	113-1	196	168	16	15	126	108	214	25	22	47	68	173	174	219	515	618	
		-2	7	7	0	0	0	2	2	0	0	0	0	4	4	0	13	13	
EM	014	114-1	272	258	19	19	79	54	126	12	9	21	37	94	85	128	448	509	
		-2	8	8	1	1	0	1	1	0	0	0	0	5	4	0	15	14	
EMR	014	301-1	128	121	11	11	17	20	32	5	3	7	15	15	29	37	177	200	
		-2	11	11	0	0	0	1	1	0	0	0	0	2	2	0	14	14	
ED	015	115-1	378	329	20	20	246	141	334	7	10	17	43	303	111	299	852	811	
		-2	16	16	2	2	0	4	4	0	0	0	0	4	3	0	26	25	
L-ED	015	304-1	203	181	6	6	83	60	118	4	2	6	13	113	36	101	384	347	
		-2	11	11	1	1	0	3	3	0	0	0	0	1	1	0	16	16	
JECMA	015	460-1	24	24	3	3	17	7	20	0	0	0	6	70	13	23	104	60	
		-2	2	2	0	0	0	1	1	0	0	0	0	0	0	0	3	3	
C	016	116-1	726	650	53	52	367	310	607	23	31	54	99	509	299	491	1,629	1,662	
		-2	30	30	3	3	0	3	3	0	1	1	0	8	7	0	45	44	
SE	016	117-1	703	622	56	56	436	369	714	28	27	54	80	393	241	545	1,548	1,687	
		-2	18	18	2	2	0	3	3	0	0	0	0	9	8	0	32	31	
PAXI	016	135-1	376	333	28	28	211	162	354	2	13	15	39	236	111	252	815	841	
		-2	6	6	0	0	0	1	1	0	0	0	0	3	3	0	12	12	
KDE	016	147-1	114	111	14	13	37	53	85	5	1	6	12	70	41	54	252	256	
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PDS	016	150-1	64	31	8	8	26	41	63	0	0	0	6	41	22	32	174	174	
		-2	2	2	0	0	0	0	0	0	0	0	0	1	1	0	3	3	
M-C	016	300-1	1,048	917	100	89	374	329	629	25	25	50	105	408	277	506	1,910	1,962	
		-2	27	27	2	2	0	0	0	0	1	1	0	5	5	0	35	35	
M-G&A	016	306-1	603	532	55	54	291	234	492	15	18	33	80	280	214	388	1,190	1,325	
		-2	16	16	2	2	0	1	1	0	0	0	0	2	2	0	21	21	
MMICR	016	307-1	454	412	40	40	156	149	284	18	14	32	55	152	138	232	809	906	
		-2	17	17	1	1	0	0	0	0	1	1	0	6	6	0	25	25	
M-D&T	016	311-1	211	192	8	8	83	61	127	9	5	14	25	93	68	118	378	409	
		-2	7	7	0	0	0	1	1	0	0	0	0	2	2	0	10	10	

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			-2	14	14	1	1	0	1	1	0	0	0	5	5	0	0	21	21		
M-EXP	016	315	-1	469	449	35	35	194	165	326	12	10	21	45	208	136	251	887	967		
			-2	10	10	0	0	0	0	0	0	0	0	6	5	0	0	16	15		
MTT	017	118	-1	383	280	22	21	282	179	409	12	9	21	62	220	156	360	813	887		
			-2	7	7	1	1	0	2	2	0	0	0	4	4	0	0	14	14		
L-MGW	017	151	-1	6	6	1	1	0	2	2	0	0	0	26	1	0	0	35	10		
			-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BME	018	119	-1	299	262	19	18	149	144	281	5	16	21	19	184	74	174	662	656		
			-2	4	4	0	0	0	1	1	0	0	0	3	3	0	0	8	8		
M-EMB	018	309	-1	78	73	6	6	26	24	45	0	4	4	8	17	15	34	129	143		
			-2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	3	3		
COM	019	120	-1	545	445	44	43	423	275	599	20	32	52	83	369	236	528	1,265	1,375		
			-2	25	25	2	2	0	2	2	0	0	0	6	5	0	0	35	34		
JSAC	019	141	-1	269	234	22	22	194	111	272	11	7	18	41	96	88	247	505	634		
			-2	8	8	1	1	0	2	2	0	1	1	4	4	4	0	16	16		
M-COM	019	302	-1	437	385	44	43	173	128	262	18	11	29	60	146	138	251	766	857		
			-2	15	15	2	2	0	0	0	0	0	0	6	4	0	0	23	21		
M-NET	019	317	-1	385	354	30	28	159	135	263	7	7	14	50	145	101	216	703	760		
			-2	7	7	1	1	0	0	0	0	1	1	5	5	0	0	14	14		
M-LCS	019	319	-1	73	70	13	13	25	22	42	1	1	2	10	24	18	36	133	145		
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UFFC	020	121	-1	150	130	13	13	84	54	129	3	3	6	15	108	39	104	328	317		
			-2	3	3	1	1	0	2	2	0	0	0	1	1	0	0	7	7		
CHMT	021	122	-1	205	186	5	5	123	79	184	4	5	9	24	94	47	153	388	431		
			-2	9	9	2	2	0	3	3	0	0	0	3	3	0	0	17	17		
JOE	022	420	-1	102	93	11	11	39	25	60	3	1	4	8	35	23	50	174	191		
			-2	2	2	0	0	0	2	2	0	0	0	1	1	1	0	5	5		
AC	023	123	-1	302	306	25	25	273	225	458	26	25	51	71	394	211	371	1,051	1,051		
			-2	18	18	2	2	0	4	4	0	1	1	0	3	3	0	28	28		
M-CS	023	305	-1	130	122	7	7	51	60	105	9	7	16	34	50	68	96	254	318		
			-2	5	5	0	0	0	1	1	0	1	1	0	0	0	0	7	7		

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RA	024	146-1	206	176	16	15	80	80	147	10	4	14	28	134	80	118	440	432
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E	025	124-1	117	107	10	10	50	58	104	8	9	17	24	86	52	82	280	290
		-2	4	4	0	0	0	2	2	0	0	0	0	7	2	0	13	8
PC	026	125-1	211	202	26	25	37	38	69	3	4	7	30	37	54	70	316	357
		-2	6	6	0	0	0	1	1	0	0	0	0	4	3	0	11	10
EMC	027	126-1	190	160	21	21	153	108	239	9	6	15	31	91	77	195	416	512
		-2	8	8	2	2	0	4	4	0	0	0	0	4	3	0	18	17
SMC	028	127-1	398	354	21	20	167	130	281	12	18	30	32	295	106	211	862	791
		-2	15	15	2	2	0	3	2	0	0	0	0	4	3	0	24	22
GRS	029	128-1	183	155	24	22	88	66	142	3	6	9	24	82	61	115	361	389
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M-T&S	030	140-1	88	87	8	7	15	9	20	2	2	4	8	14	20	25	121	138
		-2	8	8	0	0	0	1	1	0	0	0	0	0	0	0	9	9
EC	031	142-1	172	142	29	16	132	102	209	25	23	48	61	176	138	218	502	553
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PWRD	031	143-1	194	146	32	16	161	125	254	30	26	56	79	188	160	271	555	632
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PWRD	031	144-1	216	178	37	19	203	134	291	38	29	67	83	217	190	330	633	745
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PER	031	306-1	62	62	11	8	52	39	82	8	6	14	21	22	41	81	140	207
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M-EI	032	314-1	53	54	1	1	30	23	48	7	3	10	8	14	17	46	94	130
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MAG	033	131-1	271	194	10	10	179	119	253	6	8	14	25	265	67	214	673	538
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TJNJ	033	233-1	126	113	7	7	25	21	44	0	3	3	6	12	9	32	169	176
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PE	035 450-1	111	95	14	14	109	57	154	15	9	24	42	111	97	166	302	384	
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JQE	036 134-1	401	316	17	17	178	138	275	6	6	12	31	199	70	218	761	690	
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L-PT	036 148-1	65	61	6	6	17	25	33	1	0	1	3	23	11	21	119	112	
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ASC	095 152-1	8	8	0	0	1	3	4	0	0	0	0	27	2	1	38	14	
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NN	096 149-1	109	107	9	9	35	35	64	0	1	1	8	86	29	43	240	210	
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SM	097 145-1	95	93	3	3	25	17	35	0	0	0	12	44	21	37	159	152	
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M-C&D	098 313-1	203	192	9	9	45	51	88	8	8	16	25	64	58	79	335	363	
	-2	10	10	2	2	0	0	0	0	0	0	0	3	3	0	15	15	
MI	099 138-1	90	84	6	6	59	45	96	1	6	7	7	56	28	67	203	221	
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TAG	125 504-1	221	193	21	20	45	18	56	1	1	2	13	31	24	60	292	285	
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JSSC	201 410-1	302	304	25	25	242	147	323	11	11	22	48	240	120	304	805	794	
	-2	17	17	2	2	0	2	2	0	0	0	0	4	4	0	25	25	
JLT	202 430-1	150	122	9	9	132	70	172	3	1	4	31	77	40	167	307	347	
	-2	4	4	1	1	0	0	0	0	0	0	0	3	3	0	8	8	
SUB TOTAL TYPE-1		18,394	15,896	1,465	1,379	9,834	7,368	15,463	711	703	1,409	2,650	10,362	6,674	13,274	38,292	40,821	
SUB TOTAL TYPE-2		571	570	52	52	0	105	104	0	11	11	0	208	182	0	947	919	
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TOTALS FOR FULLSIZE PUBLICATIONS -							70										
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OOP	080	888-1	134	117	11	11	0	25	24	0	0	0	0	18	18	0	188	170	
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TOTALS FOR DOP OPTION 1 SUBSCRIPTIONS - FULLSIZE -										188									
TOTALS FOR DOP OPTION 1 SUBSCRIPTIONS - MICROFICHE -										7									

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SPEC	100	500-1	1,834	1,642	211	180	554	306	768	42	30	71	185	565	452	782	2,946	3,113
	-2		61	58	3	3	0	5	5	0	2	2	0	6	6	0	77	74
PROC	101	501-1	1,415	1,229	121	109	731	423	1,002	37	35	72	152	667	375	926	2,661	2,787
	-2		67	67	3	3	0	6	6	0	1	1	0	8	8	0	85	85
INST	103	503-1	72	67	3	3	1	1	2	0	0	0	3	2	5	4	78	77
	-2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STM	106	506-1	90	81	13	13	11	9	20	3	0	3	11	13	17	25	125	134
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DIR	107	507-1	118	112	10	10	1	4	5	0	0	0	2	7	6	3	139	133
	-2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EEA	300	600-1	125	125	7	7	0	0	0	3	10	13	0	0	0	3	142	145
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CCA	305	601-1	141	138	7	7	0	0	0	3	4	7	0	0	0	3	152	152
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ECA	315	603-1	66	64	9	8	0	0	0	5	5	10	0	0	0	5	80	82
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CPt	330	610-1	42	39	12	11	0	0	0	1	3	4	0	0	0	1	57	54
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CPC	331	611-1	54	52	11	11	0	0	0	0	2	2	0	0	0	0	67	65
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CPP	332	612-1	142	140	17	16	0	0	0	6	1	7	0	0	0	6	160	163
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MBEC	353	653-1	249	246	30	30	0	0	0	1	4	5	0	0	0	1	283	281
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PSA	400	620-1	16	15	4	4	0	0	0	2	1	3	0	0	0	2	21	22
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RC	401	621-1	10	17	2	2	0	0	0	3	1	4	0	0	0	3	21	23
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TC	403	623-1	18	17	7	7	0	0	0	0	2	2	0	0	0	0	27	26
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MP	406	626-1	16	15	3	3	0	0	0	2	0	2	0	0	0	2	19	20
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CEP	410	630-1	7	6	2	2	0	0	0	0	0	0	0	0	0	0	9	8
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MV	414	634-1	9	8	1	1	0	0	0	0	0	0	0	0	0	0	10	9
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HX	415	635-1	7	6	2	2	0	0	0	0	0	0	0	0	0	0	9	8
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HT	416	636-1	11	10	1	1	0	0	0	0	1	1	0	0	0	0	13	12
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HTS	417	637-1	39	38	4	4	0	0	0	1	0	1	0	0	0	1	43	43
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PAGE 12

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001 310	MASSP	ASSP MAGAZINE
002 101	BC	BROADCASTING
003 104	AP	ANTENNAS & PROPAGATION
003 320	M-AP	ANTENNAS AND PROPAGATION MAGAZINE
004 105	CAS	CIRCUITS & SYSTEMS
004 139	CAD	COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS & SYSTEMS
004 133	CVT	TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY
005 106	NS	NUCLEAR SCIENCE
005 107	PS	PLASMA SCIENCE
006 108	VT	VEHICULAR TECHNOLOGY
007 109	R	RELIABILITY
008 102	CE	CONSUMER ELECTRONICS
009 110	IM	INSTRUMENTATION & MEASUREMENT
010 111	AES	AEROSPACE & ELECTRONIC SYSTEMS
010 310	M-AES	AEROSPACE & ELECTRONIC SYSTEMS MAGAZINE
012 112	IT	INFORMATION THEORY
013 113	IE	INDUSTRIAL ELECTRONICS
014 114	EM	ENGINEERING MANAGEMENT
014 301	EMR	ENGINEERING MANAGEMENT REVIEW
015 115	ED	ELECTRON DEVICES
015 304	L-ED	ELECTRON DEVICE LETTERS
015 400	JECMA	JOURNAL OF ELECTRONIC MATERIALS
016 116	C	COMPUTERS
016 117	SE	SOFTWARE ENGINEERING
016 135	PAMI	PATTERN ANALYSIS & MACHINE INTELLIGENCE
016 147	KDE	TRANS ON KNOWLEDGE & DATA ENGINEERING

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PAGE 13

EXPANSION OF TITLE ABBREVIATIONS

G/S-PUB	ABBR.	FULL TITLE
016 150	PDS	TRANS. ON PARALLEL AND DISTRIBUTED SYSTEMS
016 300	M-C	COMPUTER MAGAZINE
016 306	M-G&A	COMPUTER GRAPHICS & APPLICATIONS MAGAZINE
016 307	MMICR	MICRO MAGAZINE
016 311	M-D&T	DESIGN & TEST OF COMPUTERS MAGAZINE
016 312	MSOFT	SOFTWARE MAGAZINE
016 315	M-EXP	EXPERT MAGAZINE: (INTELLIGENT SYSTEMS & THEIR APPLICATIONS
017 113	MTT	MICROWAVE THEORY & TECHNIQUES
017 151	L-MGW	MICROWAVE AND GUIDED WAVE LETTERS
018 119	BME	BIOMEDICAL ENGINEERING
018 302	M-EMB	ENGINEERING IN MEDICINE & BIOLOGY MAGAZINE
019 120	COM	COMMUNICATIONS
019 141	JSAC	JOURNAL OF SELECTED AREAS IN COMMUNICATIONS
019 302	M-COM	COMMUNICATIONS MAGAZINE
019 317	M-NET	NETWORK MAGAZINE
019 319	M-LCS	LIGHTWAVE COMMUNICATION SYSTEMS MAGAZINE
020 121	UFFC	ULTRASONICS, FERROELECTRICS, & FREQUENCY CONTROL
021 122	CHMT	COMPONENTS, HYBRIDS, & MANUFACTURING TECHNOLOGY
022 421	JOE	JOURNAL OF OCEANIC ENGINEERING
023 123	AC	AUTOMATIC CONTROL
023 305	M-CS	CONTROL SYSTEMS MAGAZINE
024 146	RA	TRANSACTIONS ON ROBOTICS & AUTOMATION
025 124	E	EDUCATION
026 125	PC	PROFESSIONAL COMMUNICATION
027 126	EMC	ELECTROMAGNETIC COMPATIBILITY
028 127	SMC	SYSTEMS, MAN, & CYBERNETICS
029 128	GRS	GEOSCIENCE & REMOTE SENSING

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PAGE 14

G/S-PUB		ABBR.	FULL TITLE	EXPANSION OF TITLE ABBREVIATIONS
030	140	M-T&S	TECHNOLOGY & SOCIETY MAGAZINE	
031	142	EC	ENERGY CONVERSION	
031	143	PWRD	POWER DELIVERY	
031	144	PWRS	POWER SYSTEMS	
031	308	PER	POWER ENGINEERING REVIEW	
031	318	M-CAP	COMPUTER APPLICATIONS IN POWER MAGAZINE	
032	130	EI	ELECTRICAL INSULATION	
032	314	M-EI	ELECTRICAL INSULATION MAGAZINE	
033	131	MAG	MAGNETICS	
033	233	TJMJ	IEEE TRANSLATION JOURNAL ON MAGNETICS IN JAPAN	
034	132	IA	INDUSTRY APPLICATIONS	
035	450	PE	TRANSACTIONS ON POWER ELECTRONICS	
036	134	QJE	JOURNAL OF QUANTUM ELECTRONICS	
036	148	L-PT	PHOTONICS TECHNOLOGY LETTERS	
095	152	ASC	TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY	
096	149	NN	TRANS. ON NEURAL NETWORKS	
097	145	SM	TRANSACTIONS ON SEMICONDUCTOR MANUFACTURING	
098	313	M-C&D	CIRCUITS & DEVICES MAGAZINE	
099	139	MI	MEDICAL IMAGING	
100	500	SPEC	IEEE SPECTRUM	
101	501	PROC	PROCEEDINGS OF THE IEEE	
103	503	INST	THE INSTITUTE	
105	504	TAG	IEEE TECHNICAL ACTIVITIES GUIDE	
106	506	STM	IEEE POTENTIALS	
107	507	DIR	IEEE MEMBERSHIP DIRECTORY	
201	410	JSSC	JOURNAL OF SOLID-STATE CIRCUITS	
202	430	JLT	JOURNAL OF LIGHTWAVE TECHNOLOGY	

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ACTIVE SUBSCRIBER PUBLICATIONS AS OF 02/28/91

PAGE 15

EXPANSION OF TITLE ABBREVIATIONS

G/S-PUB	ABBR.	FULL TITLE
300 600	EEA	SCIENCE ABSTRACTS - ELECTRICAL & ELECTRONIC ABSTRACTS
305 601	CCA	SCIENCE ABSTRACTS - COMPUTER & CONTROL ABSTRACTS
315 603	ECA	SCIENCE ABSTRACTS - COMBINED - ELECTRICAL & ELECTRONICS & COMPUTER & CONTROL ABSTRACTS
320 604	ECP	SCIENCE ABSTRACTS - COMBINED - ELECTRICAL & ELECTRONICS, COMPUTER & CONTROL, & PHYSICS ABSTRACTS
321 602	PA	SCIENCE ABSTRACTS - PHYSICS ABSTRACTS
330 610	CPE	CURRENT PAPERS - ELECTRICAL & ELECTRONICS ENGINEERING
331 611	CPC	CURRENT PAPERS - COMPUTERS & CONTROL
332 612	GPP	CURRENT PAPERS - PHYSICS
353 653	MBEC	MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING
400 620	PSA	KEY ABSTRACTS - POWER SYSTEMS & APPLICATIONS
401 621	RC	KEY ABSTRACTS - ROBOTICS & CONTROL
402 622	AI	KEY ABSTRACTS - ARTIFICIAL INTELLIGENCE
403 623	TC	KEY ABSTRACTS - TELECOMMUNICATIONS
404 624	EC	KEY ABSTRACTS - ELECTRONIC CIRCUITS
405 625	SD	KEY ABSTRACTS - SEMICONDUCTOR DEVICES
406 626	MP	KEY ABSTRACTS - MEASUREMENTS IN PHYSICS
407 627	EI	KEY ABSTRACTS - ELECTRONIC INSTRUMENTATION
408 628	AP	KEY ABSTRACTS - ANTENNAS & PROPOGATION
409 629	OC	KEY ABSTRACTS - OPTOELECTRONICS
410 630	CEP	KEY ABSTRACTS - COMPUTING IN ELECTRONICS & POWER
411 631	CCS	KEY ABSTRACTS - COMPUTER COMMUNICATION & STORAGE
412 632	SE	KEY ABSTRACTS - SOFTWARE ENGINEERING
413 633	AM	KEY ABSTRACTS - ADVANCED MATERIALS
414 634	MV	KEY ABSTRACTS - MACHINE VISION
415 635	HX	KEY ABSTRACTS - MICROELECTRONICS & PRINTED CIRCUITS
416 636	MT	KEY ABSTRACTS - MICROWAVE TECHNOLOGY
417 637	HTS	KEY ABSTRACTS - HIGH-TEMPERATURE SUPERCONDUCTORS

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PAGE 16

EXPANSION OF TITLE ABBREVIATIONS

G/S-PUB	ABBR.	FULL TITLE
418 638	BA	KEY ABSTRACTS - BUSINESS AUTOMATION
419 639	FA	KEY ABSTRACTS - FACTORY AUTOMATION
888 888	OOP	CONFERENCE RECORD SUBSCRIPTIONS
999 999	FULL	ENTIRE SET OF SOCIETY/COUNCIL PERIODICALS



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (201) 562-3900 TELEX 833-233 FAX (201) 562-1571

(201) 562-

DATE: April 6, 1991
TO: Officers, All Societies/Councils
FROM: Tania Skrinnikov, Finance Manager
SUBJECT: Operating Financial Statement

Enclosed is the Operating Financial Statement for your Society/Council as of February 28, 1991 together with member and subscription statistics.

If you have any questions please contact me at (908) 562-3860, by FAX (908) 562-1571, or by E-Mail: t.skrinnikov@ieee.org.

cc: Division Directors

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DATE 03/13/91

IEEE OPERATING FINANCIAL STATEMENT

PAGE 11

NEURAL NETWORKS COUNCIL

STAFF ENGELSON
COORDINATOR

(000 OMITTED)

FOR THE PERIOD ENDING FEBRUARY 28, 1991

PROJECT PROGRAM NAME	FUND	INCOME			EXPENSE				NET SURPLUS (DEFICI)				
		ANNUAL BUDGET	YEAR TO DATE BUDGET	YEAR TO DATE ACTUAL	BUDGET	ANNUAL COMMITTED	AVAILABLE	YEAR TO DATE BUDGET	YEAR TO DATE ACTUAL	ANNUAL BUDGET	BUDGET	YEAR TO DATE ACTUAL	VARI
MEMBERSHIP FEES	110			17.4								17.4	17
				N/A									
INTEREST INCOME	110			3.3								3.3	3
				N/A									
PERIODICALS	110	140.5	26.9	36.5	123.8	48.3	75.5	18.9	48.3	16.7	8.0	(11.8)	(19
				35.7X					(155.6X)				
NON-PERIODICAL SALES	110	2.0		.1		.7	(.7)		.7	2.0		(.6)	(
				N/A					N/A				
MEETINGS	110	600.0	100.0	73.6	560.0	1.6	558.4	93.3	1.6	40.0	6.7	72.0	65.
				(26.4X)					98.3X				
OTHER	110	53.2	38.8	48.4	35.2	4.2	31.0	5.9	4.2	18.0	32.9	44.2	11.
				24.7X					28.8X				
CUMULATIVE ROUNDING	110			.9					1.0			(.1)	(
				N/A					N/A				
TOTAL		795.7	165.7	180.2	719.0	54.8	664.2	118.1	55.8	76.7	47.6	124.4	76.
				8.8X					52.8X				

RESERVE BALANCE AS OF 12/31/89. - \$ 216.7

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NEURAL NETWORKS COUNCIL
FOR THE PERIOD ENDING FEBRUARY 28, 1991

PAGE 77

ANNUAL BUDGET	Y-T-D TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
INCOME													
MEMBERSHIP FEES													
MI H C	8110100502												
B													
A	.2-	.1-	.1-										
TRANS #1 H C	8110100512												
B													
A	17.2	14.2	3.0										
TRANS #1 MICRDF	8110100513												
B													
A	.1	.1											
AIR FREIGHT	8110100952												
B													
A	.3	.2	.1										
TOT MEMBERSHIP FEES													
B													
A	17.4	14.3	3.1										
INTEREST INCOME													
INT-SHT TERM	8110802000												
B													
A	3.6	1.7	1.9										
INVEST MGT FEE	8110809000												
B													
A	.3-	.1-	.2-										
TOT INTEREST INCOME													
B													
A	3.3	1.6	1.7										
TRANS & OTHER MAGS.													
NM SUBS IND 1ST	8110214001												
B	75.0	26.9	26.9	9.5	4.5	5.0	2.8	10.6	2.8	12.9			
A	17.4	14.7	2.7										
NM ALL TRANS	8110214003												
B	65.5			34.4		24.8	6.2						.1
A	19.1	19.1											
TOT TRANS & OTHER M													
B	140.5	26.9	26.9	43.9	4.5	29.8	9.0	10.6	2.8	12.9			.1
A	36.5	33.8	2.7										
NON PERIODICAL SALES													

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PGM NAME: GFINRA79 REPORT PROCESSED ON 03/13/91 PAGE 78
 NEURAL NETWORKS COUNCIL
 FOR THE PERIOD ENDING FEBRUARY 28, 1991

ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
CONF PUB OOP NET 8110501001													
B	2.0									2.0			
A													
SPECIAL PUBS 8110503000													
B													
A	-1	.1											
TOT NON PERIODICAL													
B	2.0									2.0			
A	-1	.1											
MEETINGS													
CONFERENCE 8110600000													
B	600.0	100.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
A													
90 IJCNN 8110600004													
B													
A	73.6	73.6											
TOT MEETINGS													
B	600.0	100.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
A		73.6	73.6										
OTHER													
INTER SOC TRANSF 8110900000													
B	53.2	38.8	37.2	1.6	2.1	1.1	2.7	3.0	4.0	.8	.4	.3	
A													
INT S/C TRF ASSP 8110900001													
B													
A	10.2	8.6	1.6										
INT S/C TRF CAS 8110900004													
B													
A	8.0	6.8	1.2										
INT S/C TRF IT 8110900012													
B													
A	3.0	2.6	.4										
INT S/C TRF IE 8110900013													
B													
A	.6	.4	.2										
INT S/C TRF EMB 8110900018													
B													
A	4.3	3.6	.7										

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PGM NAME: GFINRA79 REPORT PROCESSED ON 03/13/91 PAGE 79
 NEURAL NETWORKS COUNCIL
 FOR THE PERIOD ENDING FEBRUARY 28, 1991

ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
INT S/C TRF-COM	8110900019												
B													
A	6.3	5.3	1.0										
INT S/C TRF CS	8110900023												
B													
A	6.4	5.3	1.1										
INT S/C TRF RA	8110900024												
B													
A	3.2	2.7	.5										
INT S/C TRF SMC	8110900028												
B													
A	5.1	4.3	.8										
INT S/C TRF LEO	8110900036												
B													
A	1.3	1.1	.2										
TOT OTHER													
B	53.2	38.8	37.2	1.6	2.1	1.1	2.7	3.0	4.0	.8	.4	.3	
A		48.4	40.7	7.7									
MISC A/C UNDER \$100	*110***		.9										
B		.9											
A													
TOTAL INCOME													
B	795.7	165.7	87.2	78.5	96.0	55.6	82.5	62.0	64.6	53.6	65.3	50.3	50.0
A		180.2	164.1	16.1									50.1
EXPENSES													
TRANS & OTHER MAGS													
COMPOSITION	9110214001												
B	88.3	14.7	7.3	7.4	7.3	7.4	7.3	7.4	7.3	7.4	7.4	7.3	7.4
A		10.4		10.4									
AUTHOR ALTERATN	9110214002												
B													
A		1.3	1.3										
CAMERA WORK	9110214004												
B													
A		.5	.5										
PRINTING	9110214010												
B													
A		4.6	4.6										
PAPER	9110214012												
B													
A		5.7	5.7										

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PGM NAME: GFINRA79 REPORT PROCESSED ON 03/13/91 PAGE 80
 NEURAL NETWORKS COUNCIL
 FOR THE PERIOD ENDING FEBRUARY 28, 1991

ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
MAILING ENON PST 9110214013													
B													
A	.7		.7										
POSTAGE-US 9110214014													
B													
A	1.1		1.1										
POSTAGE-NON US 9110214015													
B													
A	3.9		3.9										
AIR 9110214016													
B													
A	1.0		1.0										
LABELS 9110214018													
B													
A	.4	.4											
EDITORIAL HQ 9110214060													
B													
A	8.0		8.0										
COMPOSITION 9110216001													
B													
A	.3		.3										
PRINTING 9110216010													
B													
A	.1		.1										
LABELS 9110216018													
B													
A	.4	.4											
AIR 9110225016													
B													
A	.2		.2										
MICROFICHE 9110226050													
B													
A	.1		.1										
INDEXING 9110226051													
B	1.2												
A												1.2	
EDITORIAL HQ 9110226060													
B	20.6												
A				12.6			8.0						

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PGM NAME: GFINRA79 REPORT PROCESSED ON 03/13/91 PAGE 81
 NEURAL NETWORKS COUNCIL
 FOR THE PERIOD ENDING FEBRUARY 28, 1991

ANNUAL BUDGET	Y.T.O. TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
PUB ADMIN 9110226061													
B 3.7						1.4	1.1			.6			.6
A	1.1		1.1										
SUBSCRIP HDLG 9110226062													
B	8.8	8.8											
A													
S/C EDT RMB EXP 9110226070													
B 10.0	4.2		4.2			2.5			.8	.8			1.7
A	.7	.1	.6										
MISC OTHER 9110809000													
B													
A	1.0-	1.0-											
TOT TRANS & OTHER M													
B 123.8	18.9	7.3	11.6	19.9	7.4	11.2	16.5	7.3	8.2	8.8	7.4	7.3	10.9
A	48.3	8.7	39.6										
NON PERIODICAL EXP													
SPC PUB PTG 9110503001													
B													
A	.7	.4	.3										
TOT NON PERIODICAL													
B													
A	.7	.4	.3										
MEETINGS													
CONFERENCES 9110600000													
B 560.0	93.3	46.7	46.6	46.7	46.7	46.6	46.7	46.7	46.6	46.7	46.7	46.6	46.7
A													
89 ICNN 9110600002													
B													
A	1.6	1.6											
TOT MEETINGS													
B 560.0	93.3	46.7	46.6	46.7	46.7	46.6	46.7	46.7	46.6	46.7	46.7	46.6	46.7
A	1.6	1.6											
HDQTS-SERV-TO COMM.													
ADCOM 9110741001													
B .2										.1			.1
A	.9	.3	.6										
TOT HDQTS-SERV-TO C													
B .2										.1			.1

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PGM NAME: GFINRA79 REPORT PROCESSED ON 03/13/91 PAGE 82
 NEURAL NETWORKS COUNCIL
 FOR THE PERIOD ENDING FEBRUARY 28, 1991

ANNUAL BUDGET	Y.T.D. TOTALS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
A	.9	.3	.6										
COMM. ACT. EXT. COSTS													
EXECUTIVE OFFICE 9110740002													
B													
A	2.1	.1	2.0										
AD COMM 9110741002													
B	15.0	2.6	2.6	.4				6.3	4.6		.9	.1	.1
A		.9	.9										
TECHNICAL 9110743002													
B	15.0	2.5	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.3
A													
EXEC COMM 9110746002													
B													
A	.3		.3										
TOT COMM. ACT. EXT. CO													
B	30.0	5.1	1.2	3.9	1.6	1.3	1.2	1.3	7.5	5.9	1.2	2.2	1.3
A		3.3	.1	3.2									
OTHER EXPENSES													
MISC OTHER 9110809000													
B	5.0	.8	.4	.4	.4	.4	.4	.5	.4	.4	.4	.4	.5
A													
TOT OTHER EXPENSES													
B	5.0	.8	.4	.4	.4	.4	.4	.5	.4	.4	.4	.4	.5
A													
MISC A/C UNDER \$100 *110***													
	1.0		1.0										
TOTAL EXPENSES													
B	719.0	118.1	55.6	62.5	68.6	55.8	59.4	65.0	61.9	61.1	57.2	56.7	55.6
A		55.8	11.1	44.7									
TOTAL OVERALL													
B	76.7	47.6	31.6	16.0	27.4	.2-	23.1	3.0-	2.7	7.5-	8.1	6.4-	9.5-
A		124.4	153.0	28.6-									

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

April 15, 1991

Dr. M. Mohan Sondhi
AT&T Bell Laboratories
600 Mountain Avenue
Murray Hill, NJ 07974-0636

Dear Dr. Sondhi:

I have enclosed a copy of the materials for our ICASSP '91 poster
entitled: "Truly Nonstationary Techniques for the Analysis and
Display of Voiced Speech."

I look forward to seeing you at ICASSP.

Sincerely,

Les Atlas_{rw}

Les Atlas
Associate Professor

Enclosures

LA:rw

See page 2
-DR

**IEEE SAN DIEGO XCOM MEETING
6 March 1991**

TIME- The March XCOM meeting was held at Orincon. Food was served at 5:50 PM. The meeting was opened at 6:10 PM by chairman Jim Bussert with introduction of present members and guests.

ATTENDANCE- A voting quorum was present. March meeting attenders are:

H. AbuSalem, G. Ahluwalia, M. Aronstein, K. Bakhru, J. Bussert, R. Bushner, C. Davis, B. Engelbrecht, R. Gross, L. Hamerman, S. Hays, B. LeVine, B. Lobbia, D. Milligan, L. Pinck, J. Rhode, R. Rose, E. Swanson, S. Torrey, J. Walker, D. Wilson .

*** VOTING BUSINESS**

- **Minutes** Bussert moved for February minutes approval. 2nd by Wilson. Pass unanimously.
- Treasurer's Report** Wilson moved to approve treasurer's report subject to setting aside a separate paragraph for Robbie Robinson account. 2nd by Engelbrecht. Accounts' summary enclosed.
- **Students' Scholarships** Wilson moved to split a \$600 from SDSU Student Chapter among three colleges or universities. 2nd by Engelbrecht. Pass unanimously.
- Invent America** is a competitive program to stimulate school students scientific creativity. Bakhru and Aronstein are actively involved and need Judge volunteers for next year. Aronstein moved that XCOM allocate a \$500 sum to support the event for 9-12 grades. 2nd by Bakhru. Passed by 10 votes against 3.
- EMS Conference** Gross moved that the section would be willing to host the EMS Conference in San Diego in October 1992 or 1993 should EMS find another site in 1992. 2nd by Bussert. Pass unanimously.

*** NONVOTING BUSINESS**

- Pre-Audit Finance Committee** the committee will help Quick to trace a computer error of \$700.0 and other issues.
- Tellers Committee** Aronstein, Wilson and BaKhru were nominated to sort votes for the next election.
- Video Tutorials** there is an interest from national in Video Tutorials. Wilson would look into that in terms of samples and copies costs.
- Award Committee** Bakhru along with Abusalem, Aronstein, Bussert and Hamerman are the Award Committee members and would be working on IEEE invited Speakers' and members' awards.
- San Diego Section Annual Banquet** Bakhru is currently looking for a site for the 28 June 1991 Banquet.
- SDSU Student Chapter makes a Profit** The chapter returned a \$1500 loan, used to support students buy electronics kits, plus \$600 profit. The profit will be used for students' scholarships as described in the above motion.
- Business Representatives Revival** Eric Swanson is chairing an effort to revive business members participation.
- Fuzzy Logic Conference** the XCOM needs a letter from them to

~~cosponsor and market them for the March 1992 conference.~~

~~-Neuro Networks Conference the next conference would be held in California in 1995. Neuro Networks have already violated an agreement with our section to bring the conference every other year to California and turn 30% of the profits to our section.~~

~~-Career Transition Workshop Levine proposed a seminar and would be voted on in April.~~

~~-South West Meeting is 20th April along with paper's student competition.~~

~~- MEETING ADJOURNED Bussert adjourned the meeting at 7:50 PM.~~

**XCOM MEETING NOTICE
WEDNESDAY 3 April 1990**

MEETING PLACE: ORINCON 9363 TOWNE CENTRE DRIVE. Take 805 or I-5 north to La Jolla Village Drive Exit. Follow La Jolla Village Drive to UTC. Turn north on Towne Centre Drive (across from Sears). Go past the skyscraper to second building and turn right. Park on second Level. Enter the building at the junction of the two wings. The meeting room is on the first floor.

- MEETING TIME:

5:30 PM Catered Dinner

6:00 PM Formal Meeting Starts

* Review minutes

* Treasures Report

* Establish Meet Agenda

Bring printed copies of motions requiring voting by XCOM.

7:30 PM Adjourn formal meeting.

7:31 PM XCOM members and guests are free to make meeting reports, announcements, committee reports, and other items.

*** All business items to be brought before the XCOM members must be received by the chairman Bussert NLT April's Fool.**

Society Chapters Officers:

Turn one yellow L-31 form to be reimbursed from national for your meetings next meeting. Or mail it to me:

Hana AbuSalem

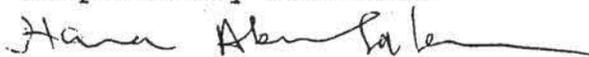
8740 Echo Dr.

La Mesa, CA 91941

Please make sure to complete the speaker's information section, name address and phone. This information is needed to invite the speakers to our banquet and receive their award certificates.

Turn a reimbursement request form, those forms are internal forms that you could make copies of, to Cathy Quick for your expenses.

Respectfully Submitted



Hana AbuSalem Section Secretary

~~cosponsor and market them for the March 1992 conference.~~

~~-Neuro Networks Conference the next conference would be held in California in 1995. Neuro Networks have already violated an agreement with our section to bring the conference every other year to California and turn 30% of the profits to our section.~~

~~-Career Transition Workshop Levine proposed a seminar and would be voted on in April.~~

~~-South West Meeting is 20th April along with paper's student competition.~~

~~- MEETING ADJOURNED Bussert adjourned the meeting at 7:50 PM.~~

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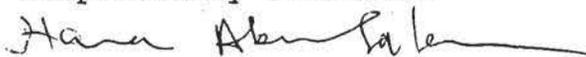
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La Mesa, CA 91941

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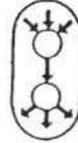
Respectfully Submitted



Hana AbuSalem Section Secretary



NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

April 1, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. Prusan:

Attached is an invoice for \$391.41 from Dr. Russell C. Eberhart, Vice-President of the NNC. This is a bill that has gone overdue that must be paid. I will personally see that the amount is reimbursed by the IJCNN-91 Finance Committee, but until then, please pay for this out of the NNC account. Please have a check made out to the IEEE Service Center and sent to:

IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

If it is possible to perform a direct transfer of funds within the IEEE without issuing a check, this is preferred. If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick K. Simpson'.

Patrick K. Simpson
NNC Treasurer

Attachments: Invoice from Dr. Eberhart (Meeting Management) & IEEE Bill

CC: R.J. Marks II, NNC President / Nomi Feldman, Meeting Management

RC Eberhart, VP NNC

PKS-25-91

5665 oberlin drive
suite 110
san diego
california
92121

consultants
and coordinators
conferences
symposia

conventions
meetings

(619)
453-6222
fax (619)
535-3880

m e e t i n g m a n a g e m e n t

DATE: March 20, 1991 **Total Pages:** 1

TO: DR. LOW TECK SENG **FAX:** (65) 7791103
National University
of Singapore

FROM: NOMI FELDMAN **FAX:** (619) 535-3880
Conference Coordinator

I have received the following 8th notice from IEEE Headquarters regarding the outstanding \$391.41 dating back to October 22, 1990. I am EXTREMELY distraught that you have not paid the bills. This causes me great embarrassment as well as jeopardizing my credit rating. If you have paid the bills, please send me a copy of the payment. THANK YOU.

cc: R. Eberhart

*Pat - Please authorize payment out of
NNC funds. We'll straighten it
up later. Thanks,
Russ*



MAP 03 1991

NOTICE

IEEE

SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, USA TELEPHONE (201) 562-5330/5331/5332

PAGE 1

CUSTOMER NUMBER

0000009464728

NOTICE DATE

3/15/91

MEETING MANAGEMENT
C/O NOMI FELDMAN
'91 IEEE IJCNN
5065 OBERLIN DR., SUITE 115
SAN DIEGO CA 92121

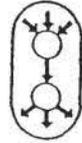
OUR FILES INDICATE NON-PAYMENT OF THE INVOICES LISTED BELOW. IN ORDER TO MAINTAIN A GOOD CREDIT STANDING, PLEASE REMIT PAYMENT TO THE ACCOUNTS RECEIVABLE DEPT TODAY. FAILURE TO DO SO MAY RESULT IN SUSPENDED CREDIT. THANK YOU FOR YOUR COOPERATION IN THIS MATTER.

NOTICE OF PAST DUE ITEMS

DATE	INVOICE/ITEM NO.	PURCHASE ORDER/ CROSS REFERENCE	AMOUNT	NO. DAYS PAST DUE
10/22/90	H156151		391.41	34

AMOUNT PAST DUE:	391.41
TOTAL OUTSTANDING BALANCE:	391.41

IF THERE ARE ANY QUESTIONS CONCERNING THIS NOTICE, CONTACT THE IEEE CREDIT & COLLECTION DEPT. AT (201) 562-5330/5331/5332, TELEX 833233.



NEURAL NETWORKS COUNCIL

Patrick K. Simpson
Treasurer

April 1, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

Dear Ms. Prusan:

The attached contract for editing services on the newly created NNC Newsletter has been approved by the IEEE NNC. I set up an account for this newsletter with Tania Skrnikoff on 3-29-91 (phone call). I am forwarding this for your records. If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick K. Simpson".

Patrick K. Simpson
NNC Treasurer

Attachments: Letter from Dr. Marks. IEEE NNC President
Copy of Contract for

CC: R.J. Marks II, President, IEEE NNC ←
C.J. Robinson, Production Editor, IEEE NNC Newsletter
W. E. Snyder, Editor, IEEE NNC Newsletter



NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

April 1, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

Dear Ms. Prusan:

Attached is an invoice and receipts for \$222.60 from Dr. Robert J. Marks II, President of the IEEE NNC AdCom. These expenses were incurred as a result of a teleconference ExCom meeting held on 2-7-91. Please reimburse Dr. Marks for the above amount and have a check sent to him at:

Robert J. Marks II
Dept. of Electrical Engineering; FT-10
University of Washington
Seattle, WA 98195

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick K. Simpson'.

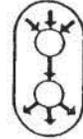
Patrick K. Simpson
NNC Treasurer

Attachments: Invoice and receipts from Dr. Marks

CC: R.J. Marks II ←



NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

April 1, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. Prusan:

Attached is an invoice and receipts for \$113.50 from Dr. Robert J. Marks II, President of the IEEE NNC AdCom. These expenses were incurred as a result of phone calls that were necessary for Dr. Marks to carry out his duties as President. Please reimburse Dr. Marks for the above amount and have a check sent to him at:

Robert J. Marks II
Dept. of Electrical Engineering; FT-10
University of Washington
Seattle, WA 98195

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

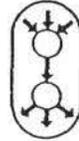
A handwritten signature in black ink, appearing to read "Patrick K. Simpson".

Patrick K. Simpson
NNC Treasurer

Attachments: Invoice and receipts from Dr. Marks

CC: R.J. Marks II ←

PKS-27-91



NEURAL NETWORKS COUNCIL

Patrick K. Simpson
Treasurer

April 1, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

Dear Ms. Prusan:

Attached is an invoice and receipts for \$79.11 from Dr. Robert J. Marks II, President of the IEEE NNC AdCom. These expenses were incurred as a result of Dr. Marks' duties as President. Dr. Marks was asked to represent the NNC at the IJCNN 91 News Conference. Please reimburse Dr. Marks for the above amount and have a check sent to him at:

Robert J. Marks II
Dept. of Electrical Engineering; FT-10
University of Washington
Seattle, WA 98195

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick K. Simpson'.

Patrick K. Simpson
NNC Treasurer

Attachments: Invoice and receipts from Dr. Marks

CC: R.J. Marks II ←

PKS-26-91

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Roy Nutter
Name of Firm: West Virginia U
Location of Firm: Morgantown WV
Facsimile Telephone Number: (304) 293-5024
From: R Marks Phone: (206) 543-6990
UWATS Code: _____ Budget #: _____

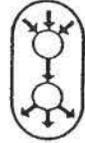
This Transmission including cover page contains 3 pages.

Date: 4/4/91 Time: 10¹⁵a

Comments: Pls. note Dr. Janson needs asap.

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Dr. Dov Jaron
Professor and Director
Medical Engineering and Science Institute
Drexel University
Philadelphia, Pennsylvania 19104

Dear Dov:

The participants of the Neural Networks Council in the Mexican Symposium are

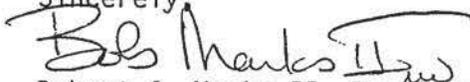
Mike Roth, Editor
IEEE Transactions on Neural Networks
Johns Hopkins University
Applied Physics Laboratory
Laurel, MD 20707
mwr@aplcomm.jhuapl.edu
FAX: (301) 953-1093
Phone: (301) 792-6543

and

Roy Nutter, Chair
NNC Council Meetings
West Virginia University
821 Electronic Engineering
P.O. Box 6101
Morgantown, WV 26506
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293-5024
Phone: (304) 293-6371, ext. 510

I have sent a copy of your letter to them.

Sincerely,


Robert J. Marks II, President
Neural Networks Council

CC: Mike Roth (by FAX)
Roy Nutter (by FAX) ✓

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



March 25, 1991

Biomedical Engineering
and Science Institute

Dov Jaron, Ph.D., Director
(215) 895-2215
Fax (215) 895-4983

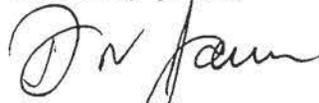
Prof. Robert J. Marks, II
President, Neural Networks Council
Department of Electrical Engineering
University of Washington
MS FT-10
Seattle, WA 98195

Dear Prof. Marks: *Bob*

I understand that you would be willing to make a presentation at the Mexico City symposium. I need to receive a proposed title for your talk. Please fax your title to me at 215-895-4983 or send it to me via my Compmail address: d.jaron, as soon as possible.

Thank you.

Sincerely yours,



Dov Jaron, Ph.D.
Professor and Director

DJ/mlm



University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Milce Roth

Name of Firm: Johns Hopkins U

Location of Firm: Laurel, Md

Facsimile Telephone Number: (301) 953-1093

From: R Marks Phone: (206) 543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 3 pages.

Date: 4/4/91 Time: 10¹⁵a

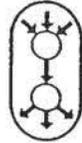
Comments: Pls. note Dr. Jaron needs this asap.

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Dr. Dov Jaron
Professor and Director
Medical Engineering and Science Institute
Drexel University
Philadelphia, Pennsylvania 19104

Dear Dov:

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Mike Roth, Editor
IEEE Transactions on Neural Networks
Johns Hopkins University
Applied Physics Laboratory
Laurel, MD 20707
mwr@aplcomm.jhuapl.edu
FAX: (301) 953-1093
Phone: (301) 792-6543

and

Roy Nutter, Chair
NNC Council Meetings
West Virginia University
821 Electronic Engineering
P.O. Box 6101
Morgantown, WV 26506
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293-5024
Phone: (304) 293-6371, ext. 510

I have sent a copy of your letter to them

Sincerely,

Robert J. Marks II, President
Neural Networks Council

CC: Mike Roth (by FAX) ✓
Roy Nutter (by FAX)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



March 25, 1991

Biomedical Engineering
and Science Institute

Dov Jaron, Ph.D., Director
(215) 895-2215
Fax (215) 895-4983

Prof. Robert J. Marks, II
President, Neural Networks Council
Department of Electrical Engineering
University of Washington
MS FT-10
Seattle, WA 98195

Dear Prof. ~~Marks~~: *Bob*

I understand that you would be willing to make a presentation at the Mexico City symposium. I need to receive a proposed title for your talk. Please fax your title to me at 215-895-4983 or send it to me via my Comppmail address: d.jaron, as soon as possible.

Thank you.

Sincerely yours,

A handwritten signature in cursive script that reads "Dov Jaron".

Dov Jaron, Ph.D.
Professor and Director

DJ/mlm



University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Dr. Dov Jaron

Name of Firm: Drexel University

Location of Firm: Philadelphia, PA

Facsimile Telephone Number: _____

From: R Marks Phone: (206) 543-6990

UWATS Code: _____ Budget #: _____

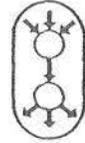
This Transmission including cover page contains 2 pages.

Date: 4/4/91 Time: 10¹⁵a

Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

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Professor and Director
Medical Engineering and Science Institute
Drexel University
Philadelphia, Pennsylvania 19104

Dear Dov:

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Symposium are

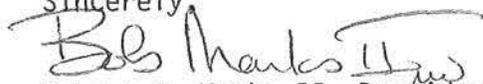
Mike Roth, Editor
IEEE Transactions on Neural Networks
Johns Hopkins University
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Laurel, MD 20707
mwr@aplcomm.jhuapl.edu
FAX: (301) 953-1093
Phone: (301) 792-6543

and

Roy Nutter, Chair
NNC Council Meetings
West Virginia University
821 Electronic Engineering
P.O. Box 6101
Morgantown, WV 26506
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293-5024
Phone: (304) 293-6371, ext. 510

I have sent a copy of your letter to them.

Sincerely,


Robert J. Marks II, President
Neural Networks Council

CC: Mike Roth (by FAX)
Roy Nutter (by FAX)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

April 5, 1991

Yacov Shamash, Ph.D.
Professor and Chair
School of Electrical Engineering and
Computer Science
Washington State University
Pullman, WA 99164-2752

Dear Professor Shamash:

I would like to express my appreciation to you and your department for the request of my interest in the Boeing Professorship in the School of Electrical Engineering and Computer Science. My current situation at the University of Washington, and in Seattle, is such that I must respond negatively to the invitation.

However, I must admit that I was pleasantly surprised about the level of new activity in your department and I would have looked forward to the possibility of an interview visit. There are several people in your department that I would like to talk to regarding our mutual interest.

Thank you again for the nomination and I look forward to seeing you again.

Sincerely,

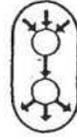


Les Atlas
Associate Professor

LA:rw



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

George Lendaris, Ph.D.
Portland State University SySC
P.O. Box 751
Portland, OR 97207-0751

Dear George:

Per your request, I enclose a copy of the audit of the 1990
San Diego IJCNN.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

Enclosure

File

The logo for IJCNN-91-SEATTLE features a stylized graphic of several overlapping, tilted rectangular shapes in shades of gray, resembling a stack of papers or a fan of documents. Below this graphic, the text "IJCNN-91-SEATTLE" is written in a bold, serif font. The "91" is enclosed in a square box that is slightly larger than the other characters.

IJCNN-91-SEATTLE

July 8-12, 1991

Washington State Convention Center, Seattle, WA.

Chair: David E. Rumelhart, Stanford University Psychology Department.

Program Co-Chairs: Demetri Psaltis, Caltech Engineering Dept., and Larry Jackel, AT&T.

3/23/91

To: IJCNN-91-SEATTLE Program Committee

From: Jennifer Humphrey,

Friends,

#1 This is to remind you to pay your registration fees for IJCNN-91-SEATTLE before the next deadline of June 1, 1991!

#2 Derek Stubbs @616.649.3772 telephone or 616.649.3592 facsimile will be the Technical Press/Public Relations interface. He will also be responsible for the Press Room at the Conference. In the past the Press Room has been poorly monitored even though a volunteer was present and some people (non-press) were using the room for personal business. We will need a fax machine, two outside phone-lines, two PC's and printers. Derek thinks \$500 for the week will get it. Derek will also be responsible for getting the Press notified about the Press Breakfast and arranging the overview of the commercial exhibitors highlights in the exhibitors hall. As the schedule indicates the Press Breakfast & Conference is Tuesday July 9, 1991. We will need "luminaries" to be present at the Press Conference. More details later. Depending on proposals either DeMichele Group, the McQuerter Group or Derek Stubbs will handle the PR for the balance of the Conference.

#3 After speaking with Lee Giles, Night Session Chair and Larry Jackel, Co-Chair, it is my understanding that the following evening events will be scheduled: No Keynote Speaker on Monday instead, Larry Jackel & Demetri Psaltis will speak for a brief up-beat 15

minutes, followed by David Rumelhart, Chair, giving an overview of the technology. Bob Marks President of IEEE NN Council will give their awards at this time followed by the Plenary speaker who is yet to be determined. Tuesday evening session will be the Industry Panel co-chaired by Tom Schwartz & Ed Rosenfeld following the Exhibitors reception. Wednesday is the Fuzzy Systems Panel co-chaired by Bart Kosko & Lofti Zadeh and a Maglaughlin Panel co-chaired by Derek Stubbs and Jennifer Humphrey. Thursday evening is the ANS Applications Panel chaired by Scott Kirkpatrick and the International Government Panel co-chaired by Cliff Lau and Steve Suddardh.

#3 Tutorial abstracts and a terse outline of the papers to be presented will be sent to all registrants when their fees are paid. This will give registrants and opportunity to determine actual arrival dates for a particular paper or presentation. Sarah Eck of Conference Management will mail. Don Wunsch, Boeing Computer Service, informs me that the Boeing tours are back on! This information will be included in the acceptance letter sent to Conference registrants and Accepted papers for oral or poster presentation

#4 The four (4) color ads have appeared in AI/Expert, Supercomputing Review, back cover of the Neural Network journal and PC/AI. We have received many bingo cards from the ads. These bingo leads are being mailed to Sarah Eck for her to mail the Preliminary Program to those responding to the color ads.

#5 31 Booths have been paid for: 20 commercial, 6 publishers, IEEE, INNS, PC/AI, AI Expert & Supercomputing Review.

#6 The Volunteers Chair is Andy Worth. He can be reached at 617.730.9300. He is coordinating his efforts through Karen Haines who has a good track record for coming through with the volunteers. Let's let Andy do his job. I have misplaced his e.mail address.

#7 Do be done:

- A. Finalization of Program to Sarah Eck by 3/31/91 by Larry Jackel & Demetri Psaltis.

- B. Design of the Proceedings cover. Let's let IEEE do this as it is very straight forward. I will ask Dave Poehlman of SAIC Graphics's to send the IJCNN-91-SEATTLE logo to IEEE Mailing Services this will be coordinated through Sarah Eck, Dave Poehlman and George Lendaris.

- C. Planning of the Opening Night Reception and the Exhibitors Reception. Jennifer Humphrey & Sarah Eck to arrange. Use 1250 attendance level. Museum of Flight off logistically impossible for opening night. Cash bar at all receptions.

- D. Canvas tote bags for Proceedings call Eastpak in New Jersey or alternate source. Get quotes for 1250 bags with one color silk screen. Sarah Eck to get quotes. Artwork to be supplied.

- E. What is the status of the shipping boxes for people to mail Proceedings home from the Conference? Geroge Lendaris and Sarah Eck to coordinate shipper and box manufacturer.

- F. Don Wunsch needs to supply information to Sarah Eck about the Boeing tours. This should be included in the confirmation notices.

Some not so good news.... I missed the Seattle meeting because I am ill. It turns out that I have cancer of the liver. I had a bad attack the night I returned home from Washington D.C., however, I have had similar attacks for the past few years all over the world, and have blamed the flashes and dysentary to local food and water. So, I am entering the Gerson Institute of Cancer for treatment on Monday 3/25/91. I am very positive about their detoxification program and feel that this treatment is much superior to chemotherapy or radiation. I know that your positive thoughts and prayers will be with me. If you want to write to me send it to Jennifer Humphrey, 343 D Street, Chula Vista, CA 91910 or HBC, PO Box 3535, Chula Vista, CA 91911. Either way the delivery system will bring my mail to the Gerson Cancer Institute. I can be reached by telephone @ 011526.680.2215 at the Gerson Institute or by facsimile @ 619.691.0890 and my family will bring me the message. Please do not send me any boo hoo letters as I do not feel sorry for myself... I

INTERDEPARTMENTAL

April 2, 1991

TO: Mohamed El-Sharkawi

FROM: Bob Marks

IEEE's bid for the forum is attached.

cc: Jan Kvamme

File



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 236411 FAX (212) 705-7682

DIRECT NUMBER (212) 705-

March 22, 1991

Professor Robert Marks
Department of Electrical
Engineering, MS FT10
University of Washington
Seattle, WA 98195

Dear Bob,

I am submitting our bid to produce the First IEEE International Forum on the Applications of Neural Networks to Power Systems Proceedings. I am giving you two versions of a 300 page book.

You would provide camera ready manuscripts. We would prepare front matter: table of contents, committees, preface, etc., from a disk. We would generate an author index, paginate, add copyright lines and prepare the book for press.

These prices are exclusive of freight to the conference.

350 soft cover \$6,460 (with a two color cover)
350 hard cover \$7,600

The soft cover would require a minimum of seven weeks and hard cover nine weeks door to door.

I am enclosing an outline of our services and specifications.

Please call if you have any questions.

Sincerely,

Ann Burgmeyer
Publications Manager

AB/jv



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The IEEE Publishing Services Department has been offering assistance to produce and print conference records when requested. Although in recent years the demand for the service has increased considerably, it is recognized that the availability of this assistance is not widely known.

Model

The standard service for the typical IEEE conference record includes the following.

- o Arrange and supervise printing and binding from camera ready copy.
- o Edit and typeset cover, spine, front and back matter, breaker pages, table of contents, etc.
- o Paginate, add folios and copyright lines.
- o Design cover from existing materials.
- o Coordinate and approve all proofs.
- o Create author index.
- o Coordinate distribution/delivery to conference site, attendees, and IEEE Service Center.
- o Send advance copy to Indexing Department.

Our model is based on the following specifications.

Size:	8.5 x 11 inches
Paper:	50# white offset
Text Ink:	black
Cover:	10 point coated one side or 65# offset
Ink on Cover:	one color with an ultraviolet coating
Binding:	perfect, all copies softcover
Halftones:	12 per 100 pages

University of Washington Correspondence

INTERDEPARTMENTAL

April 4, 1991

TO: Mohamed El-Sharkawi

FROM: Bob Marks *Bob*

We have an ISBN number

cc: Jan Kvamme
Paulette Guilliam

File



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

March 29, 1991

(908) 562-

Robert J. Marks
Elect Engr Dept
Univ of Washington, FT-10
Seattle, WA 98195

RE: **FIRST INTERNATIONAL FORUM ON APPLICATIONS OF NEURAL NETWORKS TO POWER SYSTEMS**

The following catalog numbers must appear in your publication:

IEEE Catalog Number:	91TH0374-9	
ISBN:	0-7803-0065-3	Softbound Edition
	0-7803-0066-1	Microfiche Edition
Library of Congress Number:	91-55207	
ISSN:	N/A	

The IEEE Catalog Number should appear on the front cover, spine and reverse of the title page. This number will identify the above conference proceedings as an IEEE product.

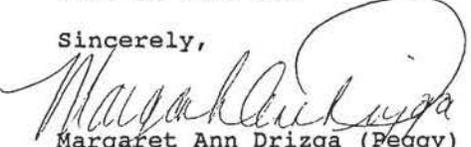
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A copy of "Copyright Requirements for IEEE Sponsored Conference Publications" and a sample IEEE copyright form are enclosed for your reference. Additional copyright forms are available upon request.

I have also enclosed a sample sheet which shows how the reverse of the title page should appear in your publication. If you have any questions, please feel free to call me.

Sincerely,


Margaret Ann Drizga (Peggy)
Conference Services

Enc.



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445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (201) 981-0060 TELEX 833233 FAX: (201) 981-0027

DIRECT NUMBER
(201) 562-3871

MEMORANDUM

TO: Conference Publication Chairman

FROM: Conference Services Department

Copyright Requirement for IEEE Sponsored Conference Publications

Due to the requirements of the 1978 U.S. Copyright law, IEEE Sponsored conferences, which publish their papers in the U.S.A., must obtain copyright transfers from authors in writing prior to publication, and must also code these papers to facilitate photocopying by libraries.

Enclosed is a detailed explanation of what is required and why, together with a supply of IEEE Copyright Transfer Forms for transmission to your authors.

If you have any questions or problems, please do not hesitate to contact the appropriate Headquarters personnel indicated in the final paragraph of enclosed instructions.

Thank you in advance for your valuable assistance in this important matter.

(Rev. 4/89)

COPYRIGHT REQUIREMENTS FOR IEEE SPONSORED CONFERENCE PUBLICATIONS

These instructions apply to all IEEE Sponsored conferences which publish their conference technical material in the U.S.A. and Canada. This includes papers, digests, and abstracts if compiled for sale. The instructions also apply similarly to those conferences cosponsored by IEEE with other societies where the material published outside the U.S.A. and Canada is excluded because U.S. Copyright laws do not apply and in most other countries the IEEE does not qualify for local copyright.

1 IEEE POLICIES

Prior to enumerating specific requirements and procedures, the following brief summary of policies may be helpful.

A Copyright Transfer From Authors

All IEEE conference publications (as defined above) are required to be copyrighted by the IEEE. Under the 1978 U.S. Copyright law, in order for IEEE to continue to hold copyright to the individual papers it publishes, the transfer of copyright from authors or their companies must now be confirmed in writing. Therefore, the conference publication committee must require authors to sign an IEEE Copyright Form prior to and as a prerequisite for publication, as discussed further below.

B Copyright Clearance Center

The 1978 copyright law prohibits large scale "systematic" photocopying without the consent of the copyright owners and the payment of whatever fees they may set. This primarily affects large industrial libraries. To enable U.S. libraries engaged in systematic copying to continue to do so without having to seek permission from each and every individual publisher, a nonprofit Copyright Clearance Center (CCC) has been established which provides a centralized mechanism to make permission automatic and to facilitate payments. A publisher can utilize the mechanism simply by printing a code on the first page of each paper which identifies the source and the copying fee. The code signifies to libraries that they can copy, providing they subsequently pay the CCC, which then periodically returns the payments to publishers, less a handling fee.

Most scientific and technical publishers, including the IEEE, are using the CCC system. This requires that a CCC code be added to the bottom of the first page of each paper, as detailed further below.

C Copyright Ownership

Copyright is held by the IEEE itself, not any of its organizational units, and is administered by the Publishing Services Department at IEEE.

D Joint Conferences

In the case of jointly sponsored conferences, IEEE recognizes the right of another qualified sponsor to hold the copyright and administer all copyright matters on behalf of the IEEE and its authors. Except in the case of a conference which is incorporated and maintains its own permanent administrative office, a conference is not considered a sponsor and may not hold a copyright to IEEE material.

2 REQUIREMENTS

The following is a chronological checklist of things which must be attended to. Further guidance on implementing items A-D is given in Section 3 below.

A Secure Copyright Transfers from authors, using enclosed IEEE Copyright Transfer Form. (Required for papers of digests, but not if only abstracts are published).*

B Add CCC codes to first page of all papers or digests. (Does not apply to abstracts. *Optional for joint conferences).

C Publish proper copyright information in the front of the publications.

D Return signed Copyright Transfer Forms to Conference Services, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. Transfer forms should be returned in one complete batch, preferably in the same order in which they are published and accompanied by a Table of Contents.

*Please Note: Abstracts and summaries one full page or longer of a substantive technical nature are required to follow the IEEE copyright procedures.

3 IMPLEMENTATION

A Securing Author Copyright Transfers

Enclosed is a supply of Copyright Transfer Forms for the conference publication committee to send to the principal author of each paper for signature. Please read the form carefully. It contains additional information you need to know about copyright and, in particular, what rights IEEE is returning to authors and their employers. Note that space has been provided for the committee to insert its return address.

The copyright release form should be sent to the appropriate author at first opportunity. Normally, this means either at the time authors first submit their papers or when authors of accepted papers receive their other publication instructions.

The "appropriate author" to whom the form should be sent will normally be the author with whom the committee is corresponding. However, if the paper is jointly authored by a mix of Government and non-Government employees, the IEEE form should be sent to a non-Government author. Non-U.S. authors are treated the same as U.S. Authors under U.S. Copyright law and IEEE policy.

The author should be required to return the signed Copyright Transfer Form to your committee as soon as he conveniently can or with his final manuscript. If the form has not been received by the time the paper is ready for acceptance and publication, contact the author for the form indicating that the committee is prepared to accept the paper upon its return. Hold the paper until the form is returned.

Authors' forms should be held until all are collected, at which time they should be sent to the Conference Services Department at the IEEE Service Center in New Jersey.

As noted in Section 2A above, author copyright transfers are required for papers of digests, but not for publications carrying only abstracts.

B Coding of Papers for IEEE Sponsored Conferences

The conference publication committee is responsible for adding a line at the bottom of the first page of each paper or digest or which makes clear its copyright status for the benefit of future users. If the paper is copyrightable by the IEEE, as will usually be the case, the line will consist of the Copyright Clearance Center (CCC) code described below. If, however, the paper is a work of the U.S. Government and hence not copyrightable, the line to be added shall read:

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The U.S. Government line would be used if the author signed Part B rather than Part A of the IEEE Copyright Transfer Form.

This Government category, it should be noted, applied only to papers authored solely by U.S. Government employees as part of their jobs. This category does not include, for example, papers where one or more co-authors are non-Government, or papers which report Government-supported work performed by non-Government organizations.

In the unlikely event the paper to be published was previously published and copyrighted, the line to be added should credit the previous source and original copyright owner. The CCC should not be used in this case.

The CCC code to be printed at the bottom of the first page of every IEEE copyrightable paper is illustrated by the following example. Let us suppose the paper in question starts on page 187 of a conference publication having an IEEE catalog number 83CH1234-5. The CCC code would read:

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CH1234-5 is the central part of the IEEE catalog number, 83 is the year of publication

0000 the zeros indicate non-periodical, i.e., conference record.

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0187 is the starting page number of paper

\$01.00 is the IEEE copying fee per article copy

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With respect to the copying fee given in the code, for simplicity, the IEEE has set the fee of \$1.00 to apply uniformly to all papers regardless of length publication. Of this, \$.50 is retained by the CCC to cover handling costs, leaving \$.50 net to the IEEE. Seventy-five percent of the net is returned to the source publication and its sponsors and twenty-five percent of the net is returned to Publishing Administration Department to help cover the cost of administering copyrights and permissions.

As noted in Section 2B above, publications consisting of only abstracts require no coding of any kind. (See note at center of page three).

C Coding of Papers for Joint Conferences

As noted below, the IEEE has established a copying fee of \$1.00 per article copy for all its technical publications, using the CCC mechanism to simplify matters for libraries. However, in the case of conferences sponsored jointly with other organizations, the question of whether to charge a copying fee and use the CCC mechanism is for the volunteer conference management to decide.

Since the publication will be copyrighted and sold by IEEE along with all its own publications, it is strongly urged that, to reduce confusion for all concerned, the IEEE policy of charging a \$1.00 fee and using the CCC mechanism be followed. In this case, Section 3B above would apply, including the procedure for returning money to all appropriate sponsors.

On the other hand, if the joint conference committee wishes to waive the copying fee altogether, Section 3B above should be ignored and no coding should be added to any papers.

Options other than charging \$1.00 or zero are not permissible.

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4 FURTHER INFORMATION

Hopefully, the above provides enough information to answer any questions that may arise. However, if you encounter a copyright problem you cannot resolve, please contact the Manager of Intellectual Property Rights at IEEE Headquarters (212) 705-7550.

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Notes and Information for Authors and Their Employers

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The following formal IEEE policy applies to all material submitted to IEEE: -

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The IEEE must of necessity assume that material presented at its meetings or submitted to its publications is properly available for general dissemination to the audiences these activities are organized to serve. It is the responsibility of the authors, not the IEEE, to determine whether disclosure of their material requires the prior consent of other parties and, if so, to obtain it.

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1. The consent of the first-named author be sought as a condition in granting republication (of a full paper) to others.
2. The consent of the employer be obtained as a condition in granting permission to others to re-use all or portions of a paper for promotion or marketing purposes.

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If you are employed and you prepared your paper as a part of your job, the rights to your paper initially rest with your employer. In that case, when you sign the copyright transfer form, we assume you are authorized to do so by your employer and that your employer has consented to all the terms and conditions of this form. If not, it should be signed by someone so authorized. (See also Policy 6.17 above.)

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For jointly authored papers, have all the joint authors sign, or at least have one of the authors sign as an authorized agent for the others. In the case of multiple authorship where one or more authors are Government employees but at least one author is not, that non-Government author should sign Part A of this Copyright Transfer Form.

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S A M P L E

REVERSE OF TITLE PAGE

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ISSN Number 1234-4567

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University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

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The following pages are for:

Attention: Robert Hecht-Nielsen

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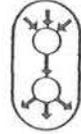
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NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 4, 1991

FAX to Robert Hecht-Nielsen

Dear Bob:

Please tell Dr. Reebok (sp?) that the Council would be delighted to consider being a Cooperating Society at the International Symposium on Neuro Informatics & Neural Computers in the USSR. Please have him send to me:

1. A cover letter requesting that the Council be a Cooperating Society in the conference.
2. Information about the conference including dates, location, sponsorship, and names and addresses of the organizing committee. This information is usually included in the call-for-papers announcement.

I will do two things:

1. Forward the conference announcement to the Council Newsletter editor to include in our meetings announcement list.
2. Forward the request to the Council's Meetings Committee. If they endorse the request, it will be considered at our AdCom in July.

Best regards,

A handwritten signature in black ink that reads "Bob Marks II" with a stylized flourish at the end.

Robert J. Marks II, President
Neural Networks Council

RJM:rw

cc: Roy Nutter, NNC Meetings Chair
Russ Eberhart, NNC Vice President

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

4/3/91

TO: Bob

FROM: Robert Hecht-Nielsen

RE: Telephone call

RHN called this afternoon. He is attending the SPIE mtg. in Orlando and meet some Russians (one's name is Ilya Reebok - sp?) whose boss is putting together an International Symposium on Neuro Informatics & Neural Computers in October, 1992, in Rostov-on-Don in Russia, USSR.

Because communication is so bad into Russia, RHN would like to give the gentlemen the procedure to follow to have IEEE NNC be a co-sponsor or cooperating society. They are not looking for monetary support.

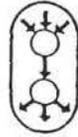
They need to take back with them a complete list of what to do.

Because it is the end of the day, I suggested we fax something to them.

FAX: Robert Hecht-Nielsen
407-239-5777
Mark: Hold for RHN, SPIE Conference



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Walter Karplus, Chair
Neural Networks Council
UCLA, Computer Science Dept.
School of Eng. & Appld Science
Los Angeles, CA 90024

Dear Walter:

The attached is FYI.

Sincerely,

A handwritten signature in cursive that reads 'Bob'.

Robert J. Marks II, President
Neural Networks Council

Attachment

file



IEEE

STANDARDS DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833233, FAX (908) 562-1571

March 5, 1991.

TO: IEEE Board of Directors
IEEE Standards Board
IEEE Society Presidents
IEEE Standards Coordinating Committee Chairs
IEEE Standards Board Liason Reps
IEEE Staff, Distribution 01 & 02

Enclosed please find a brochure entitled "IEEE Relationships and Interfaces to International Standards Organizations". The information in this brochure highlights the transnational nature of the IEEE Standards program.

If you would like more copies of this brochure, please contact Esaleta Corbin at (908) 562-3821.

Sincerely,


Andrew Salem


Marco Migliaro

File

INFORMATION
(908) 562-3800

ADMINISTRATION
(908) 562-3801

MARKETING
(908) 562-3824

NESC/GLOBAL ADDRESS
(908) 562-3812

SEMINARS
(908) 562-3805

STANDARDS BOARD
(908) 562-3807

development and approval procedures for electrotechnical standards. CENELEC considers this international coordination essential to the formation of the Single Market Program. The success of this program with respect to an international trade environment will depend on the extent to which Europe's trade partners agree and are able to use the IEC output as their standards.

Mr. Reimer, President of the US National Committee/IEC, focused on trends in international standards. He emphasized that the USNC is the gateway to IEC for US standards developers, and he outlined several scenarios for passage of a standard into the international arena. In the past, standards were written after products became well established. Now the trend is to first write an international standard to define a product. This change significantly increases the immediate economic impact of standards. Mr. Reimer noted that US companies have always let the economy influence their participation in standards development. There has also been a tendency in the US for companies to overlook the differences between standards management and standards writing. He encouraged US participants to consider getting involved earlier in the process of standards development, and to keep standards management separate

uct standards and requirements."

Finally, Marco Migliaro, Chair of the IEEE Standards Board, described the IEEE Standards process as one that has already been recognized as "transnational," in keeping with the global nature of IEEE's membership. IEEE recognizes the need to expand standards services and methods of delivery to the world, and is actively working to develop in these areas. IEEE understands the importance of EC92; however, it acknowledges the fact that the European Community represents only one part of the international picture—albeit a significant one—and intends to focus attention on the other regions and continents of the world as well. IEEE's strengths lie in its procedures, with primary emphasis on its open participation and the strict consensus process that its rules mandate. IEEE's application of technology to the publication and dissemination of standards and information worldwide positions it to meet the challenges of the 90's. As the IEEE continues to build its Standards Program, it will assume its appropriate place in the world's standards community.

Kristin Dittmann is a Project Editor in the IEEE Standards Department.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-1

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Technical Activities Department
IEEE
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331

Good day:

The Neural Networks Council AdCom will meet July 7-8 in Seattle, WA, at the International Joint Conference on Neural Networks. The meeting will be at the Washington State Convention and Trade Center. I am the contact.

Sincerely,


Robert J. Marks II, President
Neural Networks Council

(CENELEC) has created a set of procedures designed to encourage the broadest recognition of a uniform set of standards, according to Mr. Winckler, Immediate Past President and member of that organization. CENELEC is the standards developer for the European Community

al standards; the perception that US standards have unreasonable testing, labeling, and certification requirements; and the limited US participation in international standards development. In response to these issues, NIST has conducted a series of hearings on International Standards. US

GENERAL DYNAMICS
Electronics Division

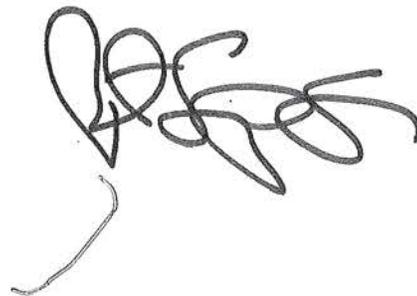
File

Date: 2-11-91
To: RS Marks II
From: P.K. Simpson

Dr. Marks

① There were five copies of the audit. You have three enclosed for your records & IEEE HQ distribution. I will send one to INNS (Dr. Werbos) & I'll keep one in my files.

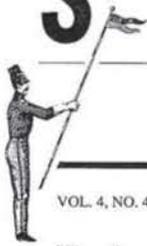
② Sincerely,



THE IEEE

STANDARDS

BEARER



VOL. 4, NO. 4

COMPLIMENTARY ISSUE



\$25.00

DECEMBER 1990

Today's Global Environment for IEEE Standards *Standards Week Feature Presentation*

BY KRISTIN DITTMANN

As the world market changes in ways that are both seen and unforeseen, the issues surrounding standards increase in complexity and importance. To examine some of these issues, four leaders with different perspectives presented information and described the roles of the IEEE, the US government, and the regional and international standards organizations CENELEC and the IEC, to an audience of standards developers in Pittsburgh, PA, during IEEE's September 1990 STANDARDS WEEK. Following their presentations, the speakers, Rudolf Winckler of CENELEC, Ronald Reimer of the USNC/IEC, Stanley Warshaw of NIST, and Marco Migliaro of the IEEE, allowed standards developers the chance to ask questions and to raise their own concerns about "transnationalizing" standards. The presentations touched on all aspects of the standards development process, and suggested the urgent interest in standards around the globe.

The European Committee for Electrotechnical Standardization (CENELEC) has created a set of procedures designed to encourage the broadest recognition of a uniform set of standards, according to Mr. Winckler, Immediate Past President and member of that organization. CENELEC is the standards developer for the European Community (EC) in the electrotechnical area. Notably, it is drawing heavily on IEC standards and standards projects, while it delegates the publication and distribution of its standards to the 18 national committees involved. Recent cooperative efforts between the IEC and CENELEC have been particularly fruitful in such areas as common planning, exchange of technical information, and parallel voting, all of which accelerate the development and approval procedures for electrotechnical standards. CENELEC considers this international coordination essential to the formation of the Single Market Program. The success of this program with respect to an international trade environment will depend on the extent to which Europe's trade partners agree and are able to use the IEC output as their standards.

Mr. Reimer, President of the US National Committee/IEC, focused on trends in international standards. He emphasized that the USNC is the gateway to IEC for US standards developers, and he outlined several scenarios for passage of a standard into the international arena. In the past, standards were written after products became well established. Now the trend is to first write an international standard to define a product. This change significantly increases the immediate economic impact of standards. Mr. Reimer noted that US companies have always let the economy influence their participation in standards development. There has also been a tendency in the US for companies to overlook the differences between standards management and standards writing. He encouraged US participants to consider getting involved earlier in the process of standards development, and to keep standards management separate

from development. Mr. Reimer's presentation included a detailed look at the structure of IEC and the relationship between the USNC/IEC and IEEE.

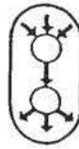
At government levels, involvement in the Uruguay Round of the GATT negotiations, the Free Trade Agreements, the formation of the Single Market in Europe, and the activities that address technical trade barriers between the US and other countries have emphasized the importance of standards in the world market, according to Dr. Warshaw, Director, Office of Standards Services at the National Institute of Standards and Technology (NIST). The US government, in its efforts to enhance opportunities for US industry in international trade, recognizes that many trade barriers are technical issues directly related to standardization. This was corroborated in the EC's 1990 *Report on US Trade Barriers*, which expressed a number of concerns, including the lack of a centralized standardizing body or source of information on standards and conformity assessment; the differences between US and international standards; the perception that US standards have unreasonable testing, labeling, and certification requirements; and the limited US participation in international standards development. In response to these issues, NIST has conducted a series of hearings on International Standards, US policy, and US participation. The testimonies given examined the US roster of concerns, especially funding, conformity assessment, and ways of increasing participation. An outcome of the hearings is a proposal in the House of Representatives that "the European Community is setting product standards in an open and fair manner and has established equitable rules for testing and certifying products for compliance with product standards and requirements."

Finally, Marco Migliaro, Chair of the IEEE Standards Board, described the IEEE Standards process as one that has already been recognized as "transnational," in keeping with the global nature of IEEE's membership. IEEE recognizes the need to expand standards services and methods of delivery to the world, and is actively working to develop in these areas. IEEE understands the importance of EC92; however, it acknowledges the fact that the European Community represents only one part of the international picture—albeit a significant one—and intends to focus attention on the other regions and continents of the world as well. IEEE's strengths lie in its procedures, with primary emphasis on its open participation and the strict consensus process that its rules mandate. IEEE's application of technology to the publication and dissemination of standards and information worldwide positions it to meet the challenges of the 90's. As the IEEE continues to build its Standards Program, it will assume its appropriate place in the world's standards community.

Kristin Dittmann is a Project Editor in the IEEE Standards Department.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, CA 92128

Dear Pat:

I hereby approve reimbursement from Council funds for the following activities in regard to the Council's Standards Committee:

1. Travel support for Chairman Walter Karplus
 - a. To the IEEE Standards meeting later this year and
 - b. To the Standards Committee meeting at the Seattle IJCNN
2. Travel support for Standards Committee officer Mary Lou Padgett to attend the Standards Committee at the Seattle IJCNN

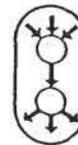
Sincerely,

A handwritten signature in cursive that reads "Bob" with "ms" written below it.

Robert J. Marks II, President
Neural Networks Council

cc: Walter Karplus

File



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 2, 1991

Dr. Dov Jaron
Professor and Director
Medical Engineering and Science Institute
Drexel University
Philadelphia, Pennsylvania 19104

Dear Dov:

The participants of the Neural Networks Council in the Mexican Symposium are

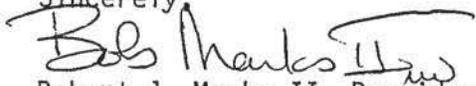
Mike Roth, Editor
IEEE Transactions on Neural Networks
Johns Hopkins University
Applied Physics Laboratory
Laurel, MD 20707
mwr@aplcomm.jhuapl.edu
FAX: (301) 953-1093
Phone: (301) 792-6543

and

Roy Nutter, Chair
NNC Council Meetings
West Virginia University
821 Electronic Engineering
P.O. Box 6101
Morgantown, WV 26506
rsn@a.coe.wvu.wvnet.edu
FAX: (304) 293-5024
Phone: (304) 293-6371, ext. 510

I have sent a copy of your letter to them.

Sincerely


Robert J. Marks II, President
Neural Networks Council

CC: Mike Roth (by FAX)
Roy Nutter (by FAX)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

file



Biomedical Engineering
and Science Institute

Dov Jaron, Ph.D., Director
(215) 895-2215
Fax (215) 895-4983

March 25, 1991

Prof. Robert J. Marks, II
President, Neural Networks Council
Department of Electrical Engineering
University of Washington
MS FT-10
Seattle, WA 98195

Dear Prof. Marks: *Bob*

I understand that you would be willing to make a presentation at the Mexico City symposium. I need to receive a proposed title for your talk. Please fax your title to me at 215-895-4983 or send it to me via my Compmail address: d.jaron, as soon as possible.

Thank you.

Sincerely yours,

A handwritten signature in cursive script that reads "Dov Jaron".

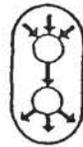
Dov Jaron, Ph.D.
Professor and Director

DJ/mlm





NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

April 1, 1991

Nomi Feldman
Conference Coordinator
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, California 92121

Dear Nomi:

Here is a disk with Fuzzy names.

Best regards,

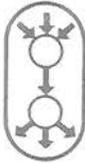
A handwritten signature in cursive that reads 'Bob' with a small 'rw' subscript.

Robert J. Marks II, President
Neural Networks Council

RJM:rw

Enclosure *- disk*

file



IJCNN '91 - SINGAPORE

International Joint Conference on Neural Networks.

Held concurrently :

IJCNN '91 Exhibition

The Westin Stamford and Westin Plaza Singapore
18 - 21 N o v e m b e r 1 9 9 1

INVITATION TO EXHIBIT

The IEEE Neural Networks Council, International Neural Network Society (INNS) and IEEE Singapore Section is organising the 1991 **IJCNN '91 Singapore** at the Westin Stamford and Westin Plaza Singapore from 18-21 November 1991. This will be the first time this annual international conference sponsored by the IEEE Neural Networks Council (NNC) and the International Neural Network Society (INNS), will be held outside the United States of America.

The choice of Singapore is its position in the midst of dynamic Pacific Rim growth region. The past IJCNN conferences in the United States of America draws in excess of 1,500 participants. The conference in San Diego in June 1990 attracted 1,600 participants and 40 exhibitors. The **IJCNN '91 Singapore** is supported by the Economic Development Board (EDB) of Singapore and co-sponsored by the National Science and Technology Board of Singapore (NSTB).

For 1991, the organising committee is holding an industrial exhibition in conjunction with the conference. We believe this will be an excellent opportunity for you as a manufacturer/supplier and publisher to the industry to interface with the managers, engineers and scientists who are the end-users of your products and services. This is essential as the Neural Networks industry is young and is evolving at a very rapid pace.

The exhibition will be held at the same time and venue as the conference. The programme of the conference will also be arranged so that there will be ample opportunities for the conference participants to visit the exhibition.

On behalf of the Conference Organising Committee, we cordially invite you to take part in the **IJCNN '91 Exhibition**. We believe this to be an opportunity which should not be missed.

We look forward to welcoming you at IJCNN 1991!

Yours sincerely

Dr R. Devanathan
IJCNN '91 Singapore
Exhibition Chairman

Dr Low Teck Seng
IJCNN '91 Singapore
General Chairman

Organisers:



IEEE
NEURAL NETWORKS
COUNCIL

INNS
INTERNATIONAL
NEURAL NETWORK
SOCIETY

Exhibition Manager:

Communication International
Associates Pte Ltd
44/46 Tanjong Pagar Road,
Singapore 0208
Tel: (65) 226 2838 Fax: (65) 226 2877

Co-sponsor:

National Science and Technology
Board of Singapore

Supported by:

Economic Development
Board of Singapore



IJCNN '91

The Exhibition

The International Exhibition on Neural Networks is organised with the main aim of allowing manufacturers and suppliers to meet a large number of decision-makers in the artificial intelligence (neural network, fuzzy systems, expert systems etc) community.

It is held in conjunction with the 1991 International Joint Conference on Neural Networks which is expected to draw over 1000 participants from all over the world.

Publicity on the exhibition will also be promoted to non-participants of the Conference to even greater increase visitorship to the event.

The exhibition is open only to trade visitors and professionals by invitation or registration. This is in order to ensure the high quality of the visitors to the exhibitor's booths.

IJCNN '91 Exhibition is the only exhibition in this region specialising in equipment, publications and services for neural networks.

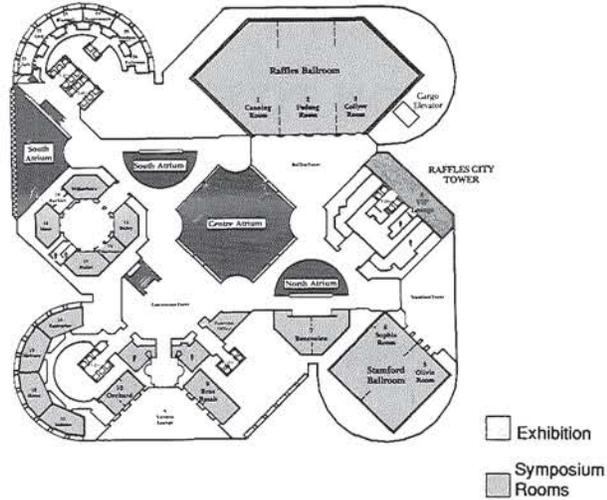
Exhibitors will comprise manufacturers and suppliers of instruments, equipment, materials and services used in all aspects of neural networks, fuzzy systems, expert systems etc, as well as book publishers.

The exhibition is an excellent opportunity for companies to promote products, services and publications to a large number of selected end-users over a concentrated period of time.

If you believe you have a product and publication to sell or service to offer these decision-makers and users at the Symposium and more, then CONTACT THE EXHIBITION MANAGER IMMEDIATELY TO BOOK YOUR SPACE!

Space Reservation Can Be Confirmed by Fax to:
(65) 226 2877.

Layout Plan of Exhibition and Conference Venue



Your Participation Made Easy

Each booth is fitted with the following basic facilities. Just come and display.

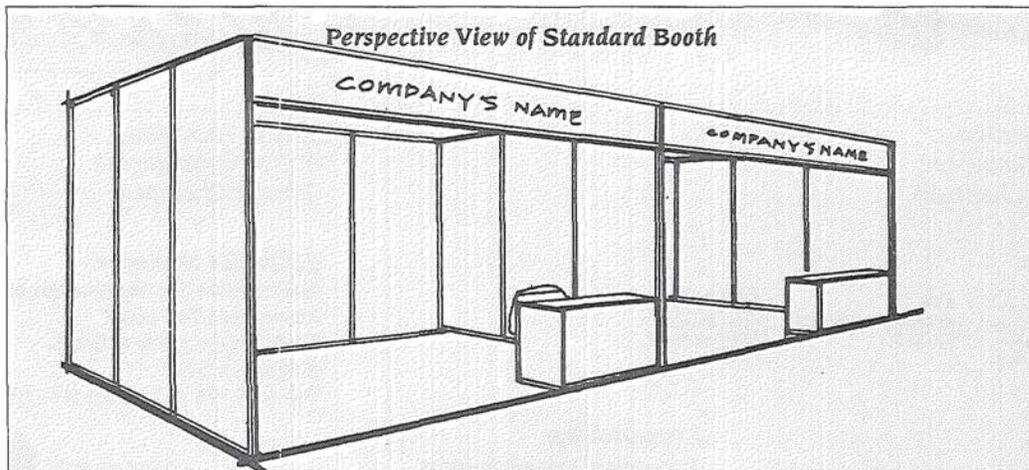
- a) White polyester laminated panels for backwall and two(2) side walls, fascia board and aluminium frames.
- b) Carpeted flooring.
- c) Adhesive vinyl letterings for exhibitor's name and booth number on fascia board.
- d) Fluorescent light (40 watts x 1.2m).

- e) One(1 no) information counter.
- f) One(1 no) folding chair.
- g) Space rental for the duration of build-up, moving-in, exhibition and moving-out periods.

Rates of Participation

- a) Shell Scheme booth at S\$2,500 per booth of 6m² –(2mD x 3mL x 2.5mH).
- b) Shell Scheme booth at S\$2,000 per booth of 4.5m² –(1.5mD x 3mL x 2.5mH).

Only limited booths available. Booths are strictly released on first-come-first-served basis.



Jun 3 08:29 1991 standard input Page 1

From marks@u.washington.edu Fri May 31 18:31:14 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu (4.0/SMI-4.0)
id AA20520; Fri, 31 May 91 18:31:12 PDT
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA05526; Fri, 31 May 91 18:30:27 -0700
Date: Fri, 31 May 91 18:30:27 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9106010130.AA05526@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Cc: d43131a@nucc.nagoya-u.ac.jp, marks@milton.u.washington.edu
Status: R

Please call Nomi & ask her to send copies to Dr. Fukuda.

Thanks!

Bob Marks

From d43131a@nucc.cc.nagoya-u.ac.jp Fri May 31 17:50:16 1991
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA28788; Fri, 31 May 91 17:49:55 -C
Received: from [192.41.197.3] by blake.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA12086; Fri, 31 May 91 17:49:39 -C
Received: from nugw.cc.nagoya-u.ac.jp by relay.cc.u-tokyo.ac.jp (5.61/2.7W)
id AA24958; Sat, 1 Jun 91 09:49:12 +0900
Received: from nucc.cc.nagoya-u.ac.jp (nucc.ARPA) by nugw.cc.nagoya-u.ac.jp
id AA16847; Sat, 1 Jun 91 09:49:49 JST
Received: by nucc.cc.nagoya-u.ac.jp (4.12/6.4J.6)
id AA00747; Sat, 1 Jun 91 09:48:26 JST
Date: Sat, 1 Jun 91 09:48:26 JST
From: d43131a@nucc.cc.nagoya-u.ac.jp (Tosio Fukuda)
Return-Path: <d43131a@nucc.cc.nagoya-u.ac.jp>
Message-Id: <9106010048.AA00747@nucc.cc.nagoya-u.ac.jp>
To: marks@blake.u.washington.edu

Dear Bob:

Thank you very much for your e-mail concerning to the submission
dead-line for IJCNN'91-Singapore. As I discussed it with Dr. Teck Seng Low
we agree with lyour proposal to extend the submission date until June 30.

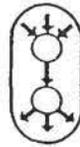
As we will have meeting at Seattel at the beginning of July,
the earlier, the better to handle.

By the way, I have received some of the call for papers for
FUZZ-IEEE'92 which will be held in March, 1992, in San Diego, CA.
Could you send 200 call for papers until June 10 to my office? I would
like to distribute them at committees and symposiums in Japan.

Thank you for your kind consideration.

With my best wishes,

Tosio Fukuda
Nomi Feldman - Called 6/3/91



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-28-91

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104
USSR
(8632) 280577, telex: 123228 TEMR, FAX (8632) 244311

Dear Dr. Barkowski,

I write in response to your recent correspondence.

The President of and *IEEE Moscow Section* (and the *Popov Society*) is:

Academician Yuri V. Gulyaev
President, A.S. Popov Society
Director, Institute of Radioengineering and Electronics
USSR Academy of Sciences, 18 Marx Avenue
Moscow, GSP-3, USSR 103907
Telephone: 7-095-203-4993

A letter from the *IEEE Moscow Section* supporting your proposal is important. Traditionally, large conferences involve the active participation of the local section. This participation is especially desirable considering the unfamiliarity of the Council with holding conferences in the Soviet Union.

I have been reminded that, for international conferences, the IEEE name and logo can only be used on when sponsorship comes from an IEEE Society or Council. Sponsorship, as defined by IEEE, includes significant technical and financial support of a Council or Society. Ideally, most of those involved in the conference will be IEEE members.

I look forward to seeing your proposal. If I receive it before June 20, I can include in the mailing to AdCom members and members of the Council's Meetings Committee. Procedurally, your proposal will be considered by the Meetings Committee on Sunday, July 20, and potentially by AdCom on Monday. You are invited to attend these meetings.

I look forward to seeing you in Seattle.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair
Patrick K. Simpson, NNC Treasurer
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE TAB

Fax: (206) 543-3842

Professor Robert J. Marks II
President
IEEE Neural Network Council
University of Washington
Department of Electrical Engineering
Seattle, WA 98195
USA

20 May 1991

Dear Professor Marks,

Thank you for kind telephone communication with me on 9 May.

I consulted the dates of our Symposium with local authorities and with Moscow men, involved in Russian local professional (Computer (?)) section of IEEE. It is the only official structure of IEEE in USSR. I hope you'll point me proper men to deal with.

We moved dates of our (IEEE-hope) Rostov-on-Don Symposium on Neuroinformatics and Neurocomputers to 30 September - 3 October 1992. If this is OK we can launch advertizing after our July meeting, so kindly proposed by you.

For the latter to be real I ought to say about details.

I've been told by experienced persons that the following actions are needed.

Somebody on your side may order ticket(s) on my name to one of Moscow offices of (American Flight Companies) on the plane departing as early as possible on 7 July from Moscow to New York. I ought to be informed about the office name and location.

I also need instructions on my actions in N.Y. I think that it is of course possible to arrive the same day, 7 July in Seattle.

My departure from Seattle depends on possibility of my lectures anywhere in vicinity of IJCNN and anyway is not earlier 10 July. This point defines times needed for your ticket order for my travel back to Moscow. For example, because of time difference, leaving Seattle in late evening 10 July I could be in early morning 11 July in N.Y. and depart for Moscow in the evening of that day.

I also would be glad to present one of two (or both) lectures :

1. Neurocomputing in the USSR. A review of Neural Network and Neurocomputing groups in the USSR.

2. Structural and Informational Approach to Cerebellar Network Analysis.

(Both of an hour in duration)

Thank you very much for you generous attitude to our problems.
Hope to have news from you.

Sincerely yours,



W. Dunin-Barkowski
RNNS President
NCRI Director

file



Action Item
Response Requested

IEEE

TECHNICAL ACTIVITIES BOARD

William R. Tackaberry, Chairman
TAB LIAISON COUNCIL

PLEASE REPLY TO:
25 Beech Avenue
Madison, NJ 07940 USA
Tel.: (201) 377-7371

June 5, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Dept. of Electrical Engineering
University of Washington, MS FT-10
Seattle, WA 98195

Dear Prof. Marks:

A copy of the **1990 DATABASE OF SOCIETY INTERFACES WITH NON-IEEE ENTITIES (12-31-90)** is enclosed. As you know, this material was assembled last year with your much appreciated help and cooperation.

The data is available on a real time basis from a computer database program maintained by TAB in Piscataway. With relatively little additional effort it can be kept current by timely updating.

For this reason, would you make appropriate corrections to your society's segment of the enclosed and forward it to Dino Sethi by **July 10, 1991**.

Where acronyms are used, to make the data more readily understandable, a uniform format is suggested. Example - rather than listing "SAE", it would preferably be shown as "Society of Automotive Engineering (SAE)".

Your help in meeting the **July 10, 1991** target will be most appreciated.

With best personal regards,

William R. Tackaberry
Chairman, TAB Liaison Council

Attachment
WRT/pat

cc: Prof. H. Vincent Poor - w/o attachment

MEMORANDUM

UNIVERSITY OF WASHINGTON

WRITE IT ■ DATE IT ■ SIGN IT

Transmitted for your APPROVAL DISPOSITION INFORMATION COMMENT REPLY (Return Information Copy) FILES

TO: Bob Boggs FROM: Prof. Marks
TELEPHONE: _____
Budget 63-4393 DATE: June 25, 1991

Message, Comment, or Reply

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IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

June 4 1991 (908) 562- 3861

Professor Robert J. Marks, II
University of Washington
Dept. of Electrical Engineering FT-10
Seattle, WA 98195

Dear Professor Marks:

At the request of Mr. Pat Simpson, enclosed is check in the amount of \$6,397.00 payable to the University of Washington for secretarial services performed for your office as President of the IEEE Neural Networks Council.

Sincerely yours

Marilyn Prusan
Finance Administrator
Technical Activities

CC Pat Simpson

check mailed 6-17-91

1990 DATA BASE OF SOCIETY INTERFACES WITH NON-IEEE ENTITIES

12-31-90

One of the goals of the Institute, as manifested for example in TAB's strategic and operating plans, in the efforts of the RAB/TAB Transnational Committee, and in the recent high-level contact activities of the institute's leadership, is to establish and cultivate relationships with National Organizations, Technical Sister Societies, and other entities worldwide whose areas of interest are similar to, or overlapping with, those of the IEEE.

It is recognized that the different organizations around the world with which the IEEE is exploring development of cooperative relations are very diverse in terms of areas of interest, size, structure, goals, attitudes toward the IEEE, etc. Therefore, the form of such relations will be individually tailored of each organization. However, in all cases, the policy underlying the establishment of such relations must serve the following basic goals for the Institute:

- 1) Enhancement of worldwide leadership position and influence of the IEEE.
- 2) Enhancement of the value of membership in IEEE and in other organizations or national societies.
- 3) Increase of the pool of potential new IEEE members.

The TAB Liaison Council recommends:

That each Society appoint a liaison function with a single point of contact for reporting purposes to be responsible for coordinating the Society's non-IEEE entity liaison interests. Such an assignment could include:

- Maintaining an up-to-date inventory of the Society's non-IEEE entity relationships listing identified contact persons for each entity.
- Seeking out and evaluating opportunities for cooperation with other non-IEEE entities having similar technological interests.
- Reporting to the Society ADCOM on liaison matters of import to the Society.

Where appropriate - Societies enlist RAB/TAB Transnational Committee and/or TAB Liaison Council resources to facilitate achievement of the Society's liaison goals.

AEROSPACE AND ELECTRONIC SYSTEMS (Cont'd)

Page 3

NON-IEEE ENTITY

CONTACT

Royal Institute of Navigation

M. Kayton
Kayton Engineering Co.
P.O. Box 802
Santa Monica, CA 90406

Wright State University

B. A. Shnoi
Wright State University
134 Fawcett Hall
Dayton, OH 45435

ANTENNAS AND PROPAGATION

URSI/USNC

Dr. W. Ross Stone
Stoneware Ltd.
1446 Vista Claridad
La Jolla, CA 92037
(619) 592-2094

BROADCAST TECHNOLOGY

Association of Broadcast Engineering Standards, Inc.

Wallace E. Johnson, President
2000 M Street, N.W., Suite 600
Washington, DC 20036
(202) 331-0606

Association of Federal Communications Consulting
Engineers

Richard L. Biby, President
Box 19333
20th Street Station
Washington, DC 20036
(703) 534-7880

Association of Maximum Service Television

Victor Tawil, Vice President
1400 16th Street, N.W.
Suite 610
Washington, DC 20036
(202) 462-4351

CIRCUITS AND SYSTEMS (Cont'd)

Page 5

NON-IEEE ENTITY

CONTACT

European Conference on Circuit Theory and Design
(ECCTD)
(Informal cooperation with Institution of Electrical
Engineers)

Joint Technical Conference on Circuits, Systems,
Computers, and Communications (JYC-CSCC)
(Cooperation with professional societies in Asia)

Midwest Symposium on Circuits and Systems
(50% co-sponsorship by IEEE CAS Society)

COMMUNICATIONS

American Federation of Information Processing Societies
(AFIPS)

Diane Edgar, Managing Director
1899 Preston White Drive
Reston, VA 22091
(703) 620-8900

American Institute of Physics (AIP)

Kenneth W. Ford, Executive Director
335 East 45th Street
New York, NY 10017
(212) 661-9404 ext.572

American Mathematical Society

William H. Jaco, Executive Director
P.O. Box 6248
Providence, RI 02940
(401) 445-4100

American Physical Society

Eugen Merzbacher, President (current)
University of North Carolina
Dept. Physics
Chapel Hill, NC 27599
(919) 962-3021

Nicollas Bloembergen, President (1991)
Harvard University
Division of Applied Physics
29 Oxford Street
Cambridge, MA 02138
(617) 495-3336

COMMUNICATIONS (Cont'd)

Page 7

NON-IEEE ENTITY

CONTACT

The Institute of Electronics, Information and
Communication Engineers (IECEJ)

Akira Matsuki, General Manager
(Denshi-Joho-Tsushin-Gakkai)
Kikai-Shinko-Kaikan Building, 5-8
Shibakoen 3 chome
Minato-Ku, Tokyo, 105 JAPAN
03-433-6691

Institution of Electrical Engineers UK (IEE)

D. D. Duffet, Secretary
Savoy Hill House
Savoy Hill
London WC2R, OJD
ENGLAND
71-240-1871

International Union of Radio Sciences (URSI)

National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, DC 20418
(202) 334-3520

Dr. Chalmers M. Butler, Chairman,
US National Committee (1991)
Department of Electrical &
Computing Engineering
Clemson University
Clemson, SC 29634
(803) 656-5922

National Engineering Consortium

Robert Janowiak, Executive Director
303 E. Wacker Drive
Suite 740
Chicago, IL 60601
(312) 938-3500

Optical Society of America (OSA)

Dr. Jarus Quinn, Executive Director
2010 Massachusetts Avenue, N.W.
Washington, DC 20036
(202) 416-1408

Royal Institute of Engineers

J. L. Matterman, Executive Director
(Koninklijk Instituut van Ingenieurs-Klwl)
Utrechtsweg 310
NL-6812 AR Arnhem
THE NETHERLANDS
85-562491

COMPONENTS, HYBRIDS, AND MANUFACTURING
TECHNOLOGY (Cont'd)

Page 9

NON-IEEE ENTITY

CONTACT

SEMI

John Powers
IBM Corp
Route 52 66k/320-68F
Hopewell Junction, NY 12533

COMPUTER

American Institute of Aeronautics and Astronautics
(AIAA)

Dr. Bastian Hello, President
370 La-Enfant Promenade
Washington, DC 20024

American Institute of Physics (AIP)

Donald Kirwan, President
1825 Connecticut Avenue, NW
Suite 213
Washington, DC 20009

American Mathematical Society (AMS)

William Browder, President
P.O. Box 6248
Providence, RI 02940

American Society of Mechanical Engineers (ASME)

Dr. Charles O. Velzy
1825 K Street, NW
Washington, DC 20006

Association Francaise pour la Cybernetique Economique
et Technique (AFCET)

Madame Marie-France Kalogera
156, Boulevard Pereire
75017 - Paris, FRANCE

Australian Computer Society (ACS)

A. W. Goldsworthy
Jennings Industries Limited
690 Springvale Road
MULGRAVE
Victoria 3170, AUSTRALIA

The British Computer Society (BCS)

Mrs. A. Gaffney
13 Manfield Street
London W1M OPB, ENGLAND

Computer Engineering and Application Society of the
Chinese Institute of Electronics (CEAS)

Prof. Qiangnan Sun
P.O. Box 162
Beijing, People's Republic of China

NON-IEEE ENTITY

CONTACT

National Association of Accountants	Dr. Thomas O'Toole 10 Paragon Drive Montvale, NJ 07645
Nederlands Genootschap voor Informatica (NGI)	Dr. L. Groosman Paulus Potter Straat 7 Amsterdam - THE NETHERLANDS
Operations Research Society of America (ORSA)	Donald Gross, President Mt. Royal at Guilford Baltimore, MD 21202
Singapore Computer Society (SCS)	Wee Tew Lim NGB Building 71 Science Park Drive Singapore 0511
Societe Suisse de Informaticiens (SI)	Prof. Rudolph Marty Schwandenholzstrasse 286 CH-8052 Zurich, SWITZERLAND
Society of Aircraft Material and Process Engineers (SAMPE)	Dr. Jerry Bauer, President 1055 W. San Bernardino Road Covine, CA 91722
Society of Automotive Engineers (SAE)	Max Rumbaugh, Executive Director 400 Commonwealth Drive Warrendale, PA 15096
Society of Photo-Optical Instrumentation Engineers (SPIE)	Dr. Emery Moore, President P.O. Box 10 Bellingham, WA 98227-0010
U.S. TAG for ISO/IEC JTC1 SC7	Feroze Tayabali Secretariat L'Esplanade Laurier 10th Floor, East Tower 140 O'Connor Street Ottawa, CANADA K1A 0R5 (613) 957-4250

CONTROL SYSTEMS

NON-IEEE ENTITY

CONTACT

CONTROL SYSTEMS

Society for Industrial and Applied Mathematics

Dr. Clyde Martin
Department of Mathematics
Texas Tech University
Lubbock, TX 79409

Operations Research Society of America

Dr. Chelsea White
University of Virginia
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(804) 982-2065
Fax: (804) 924-6270
e-mail: ccw@virginia.edu

American Automatic Control Council

Dr. Abraham Haddad
Department of EE/CS
Northwestern University
2145 Sheridan Road
Evanston, IL 60208

DIELECTRICS AND ELECTRICAL INSULATION

National Electrical Manufacturers Association (NEMA)

J. Tanaka
University of Connecticut
Chemistry Dept, U-6, Room 151
215 Glenbrook Road
Storrs, CT 06269-3060

International Coil Winders Association (ICWA)

J. Tanaka
University of Connecticut
Chemistry Dept, U-60, Room 151
215 Glenbrook Road
Storrs, CT 06269-3060

Electric Power Research Institute (EPRI)

B. S. Bernstein
Electric Systems Division
Electric Power Research Institute
1019 19th Street, NW, Suite 1000
Washington, DC 20036

ELECTROMAGNETIC COMPATIBILITY (Cont'd)

NON-IEEE ENTITY

CONTACT

Computer Business Equipment Manufacturers Assoc.

H. R. Hoffman
AT&T Bell Labs
Room 2B-220
2000 N. Naperville Road
Naperville, IL 60566
(708) 979-3627

National Institute of Standards and Technology

M. Kanda
EM Division
NIST
Boulder, CO 80303
(303) 497-5320

Product Safety Society

R. Pescatore
Hewlett Packard M/S 42LS
19447 Pruneridge Avenue
Cupertino, CA 95014
(408) 447-6607

Federal Communications Commission Labs

L. A. Wall
10651 Breezewood Drive
Woodstock, MD 21163
(301) 725-1585

Society of Automotive Engineers (SAE)
Committee AE-4 on Electromagnetic Compatibility

W. D. McKerchar
P.O. Box 1888
Poulsbo, WA 98370
(206) 779-7069
Fax: (206) 697-1259

Electronics Industries Association (EIA) Committee G-46

Vacant

International Special Committee on Radio Frequency
Interference (CISPR) SC A&G (US Nat'l Comm of
IEC TAG)

D. N. Heirman
143 Jumping Brook Road
Lincroft, NJ 07738-1442
(908) 741-7723

U.S. National Committee of U.R.S.I.

Vacant

International Consultative Committee on Radio (CCIR)
Study Group 1

Vacant

NON-IEEE ENTITY

CONTACT

1990 Symposium on VLSI Technology
Japan Society of Applied Physics

Dr. Lewis M. Terman
IBM Research Center
P.O. Box 228
Yorktown Heights, NY 10598
(914) 945-2029

1990 VLSI Multilevel Interconnection Conference
University of South Florida

Thomas Wade
Engineering Dean's Office
University of South Florida
4202 Fowler Avenue
Tampa, FL 33620
(813) 974-3786

19th Power Modulator Symposium
Naval Surface Warfare Center
DOD Advisory Group on ED
US Army LabCom
Air Force WeaponsLab

Mark Goldfarb
Palisades Institute
2011 Crystal Drive
Suite 307
Arlington, VA 22202
(703) 769-5588

1990 International Conference on Solid State Devices and
Materials
Japan Society of Applied Physics
IEE Japan
Institute of TV Engineers - Japan
Electrochemical Society of Japan
Materials Research Society
Institute of Electronics, Information and
Communication Engr. - Japan

Nobuo Mikoshiba
Research Inst. of El. Communication
Tohoku University
Senai, 980 JAPAN
022-227-6200 ext.2720

Advanced Semiconductor Manufacturing Conference and
Workshop
SEMI

Gary Cheek
Analog Devices
804 Woburn Street
Wilmington, MA 01887
(617) 935-5565

ESSDERC '90
IEE-London, UK
European Physical Society

Jacki Butler
Meetings Assistant
The Institute of Physics
47 Belgrave Square
London SW1X, 8QX, UK
01-235-6111

ENGINEERING IN MEDICINE AND BIOLOGY (Cont'd)

Page 19

NON-IEEE ENTITY

CONTACT

International Union of Pure & Applied Biophysicists

Dr. Charles J. Robinson, D.Sc
Rehabilitation R&D Center
Hines VA Hospital
Room 1A-202A
P.O. Box 20
Hines, IL 60141
(708) 343-7200 ext.5783

Northeast Bioengineering Conference

Dr. Roger P. Gaumont
230 Hallowell Building
Penn State University
University Park, PA 16802
(814) 865-1407

Rocky Mountain Bioengineering Symposium

Dr. John Enderle
Division of Bioengineering
Department of Electrical Engineering
North Dakota State University
Fargo, ND 58105-5285
(701) 237-7689

6th IMEKO Conference on Measurements in Clinical
Medicine
Czechoslovakian Society of Biomedical Eng.
Medical Computing Symposium (Mexico)
Chinese Society of BME Conference
ITBM Young Researchers Forum (Paris)
Indian Biomedical Engineering Society Conf.

Dr. Swamy N. Laxminarayan
Academic Computer Center
Univ. Med. & Dent. of NJ
185 South Orange Avenue
Newark, NJ 07103
(201) 456-6007

First Conference on Visualization in Biomedical

Dr. Norberto Ezquerra
Georgia Institute of Technology
Atlanta, GA 30332
(404) 894-3964

ENGINEERING MANAGEMENT

Academy of International Business

FOR ALL:

Academy of Management

Aileen Cavanagh
4339 Dutch Lane
Douglasville, GA 30135

Acoustical Society of America

NON-IEEE ENTITY

CONTACT

Association for Computing Machinery

Association for Science, Technology, and Innovation

British Operational Research Society

Electro-Chemical Society

Engineering Institute of Canada

Industrial Relations and Research Association

Industrial Research Institute

International University Contact for Management
Education (Delft, The Netherlands)

Instrument Society of America

Institute of Management Sciences

National Academy of Engineering

National Society of Professional Engineers

Operations Research Society of America

Optical Society of Professional Engineers

Optical Society of America

Project Management Institute

Society for the Advancement of Management

Society for Industrial and Applied Mathematics

Society for Personnel Administration

Society of Automotive Engineers

Society of Research Administrators

Society of Rheology

INDUSTRIAL ELECTRONICS

NON-IEEE ENTITY

CONTACT

INDUSTRIAL ELECTRONICS

SICE (JAPAN)

Prof. Rokuya Ishii
Dept. of Electrical Computer Engineering
Yokohama National University
Tokiwadai, Hodogaya-Ku
Yokohama, 240 JAPAN
Fax: 81-45-334-3215

INDUSTRY APPLICATIONS

Construction Industry Institute

Dr. Eugene J. Fagan
E. I. DuPont
Engineering Department
P.O. Box 6090
Newark, DE 19714-6090
(302) 366-2884

INFORMATION THEORY

Commission C of URSI

Dr. Aaron Wyner
Bell Labs
(201) 582-2916

Neural Information Processing System Conf. (jointly
sponsored with American Physical Soc.)

Dr. Edward Posner
JPL/Cal Tech
(818) 354-6224

Society for Information Theory and its Applications
(Japan)
in cooperation with their Symposium

Prof. Shu Lin
University of Hawaii at Manoa
2540 Dole Street
Honolulu, HI 96822
(808) 948-7443

LASERS AND ELECTRO-OPTICS (Cont'd)

Page 25

NON-IEEE ENTITY

CONTACT

Lasers and Electro-Optics Manufacturers Association
(Conference)

Materials Research Society (Conferences)

MAGNETICS

American Institute of Physics

Dr. John T. Scott
American Institute of Physics
500 Sunnyside Boulevard
Woodbury, NJ 11797-2999

American Physical Society

Dr. William Havens
American Physical Society
335 East 45th Stret
New York, NY 10017

The Magnetics Society of Japan

The Magnetics Society of Japan
c/o Kotohira Kaikan
208 Toranomom 1-Chome
Minato-Ku
Tokyo 105, JAPAN

MICROWAVE THEORY AND TECHNIQUES

International Microwave Power Institute (IMPI)

J. M. Osepchuk
Raytheon Company
Research Division
131 Spring Street
Lexington, MA 02173

URSI U.S. National Committee

A. A. Oliner
Polytechnic University
Dept. of Electrical Engineering
333 Jay Street
Brooklyn, NY 11201

NON-IEEE ENTITY

CONTACT

Offshore Technology Conference

Dr. Glen N. Williams
Computer Science Department
Texas A&M University
College Station, TX 77843
(409) 845-5484/8419

POWER ELECTRONICS

European Power Electronics Association

Prof. Fernando Aldana
Universidad Politecnica de Madrid
Ramiro de Maeztu, s/n
E-28040 Madrid, SPAIN
34-1-534 37 09

Electric Power Research Institute

Ben Banerjee
Customer Systems Division
Electric Power Research Institute
P.O. Box 10412
Palo Alto, CA 94303
(415) 855-7925

Institution of Electrical Engineers, UK

Rex Davis
University of Nottingham
Electrical Engineering Dept.
Nottingham, UK
Fax: UK-532-423179

Prof. P. Evans
University of Bath
School of Electrical Engineering
Claverton Down; Bath BA2 7AY

Power Sources Manufacturers Association

John Steel
ZYTEC Corp.
c/o Power Sources Manufacturer's
Association
P.O. Box 279
Cathedral City, CA 92235
(612) 941-1100

PROFESSIONAL COMMUNICATION

NON-IEEE ENTITY

CONTACT

PROFESSIONAL COMMUNICATION

Society for Technical Communication

Saul A. Carliner
IBM Corporation L09L1
4011 Northside Parkway
Atlanta, GA 30327
(404) 238-5327

All-Union Scientific and Engineering A.S. Popov Society
for Radio, Electronics, and Communication--Group on
Professional Communication

Dr. R. J. Joenk
IBM Corporation
500 Columbus Avenue
Thornwood, NY 10594
(914) 742-5665

International Council for Technical Communication

Dr. R. J. Joenk (acting)
IBM Corporation
500 Columbus Avenue
Thornwood, NY 10594
(914) 742-5665

Society for Scholarly Publishing

Dr. R. J. Joenk (acting)
IBM Corporation
500 Columbus Avenue
Thornwood, NY 10594
(914) 742-5665

RELIABILITY

Annual Reliability and Maintainability Symposium

Bernhard Bang
Westinghouse Electric Corp.
P.O. Box 1521, MS-3G07
Baltimore, MD 21203
(301) 765-7340

SIGNAL PROCESSING (Cont'd)

Page 31

NON-IEEE ENTITY

CONTACT

European Association for Signal Processing (EURASIP)

Prof. Murat Kunt, Executive Officer
Case Postale 134
CH-1000
Lausanne 13, SWITZERLAND
21-472626

IREE

Boualem Boashash
Dept. of Electrical Engineering
University of Queensland
St. Lucia
Brisbane, AUSTRALIA 4067
0011 61-7-377 2899

Optical Society of America

Jarus W. Quinn, Executive Officer
1816 Jefferson Place, N.W.
Washington, DC 20036
(202) 223-8130

SPIE - The International Society for Optical Engineering

Joseph Yaver, Executive Director
P.O. Box 10
1000 20th Street
Bellingham, WA 98227
(206) 676-3290

SOCIAL IMPLICATIONS OF TECHNOLOGY

Section X, Societal Impacts of Science and
Engineering, American Association for the
Advancement of Science

Gretchen Schabatach Kolsrud,
Chair, Section X,
Office of Technology Assessment
U.S. Congress
Washington, DC 20510
(202) 228-6785

SYSTEMS, MAN, AND CYBERNETICS

Page 33

NON-IEEE ENTITY

CONTACT

SYSTEMS, MAN, AND CYBERNETICS

Human Factors Society

Dr. Arye R. Ephrath
District Manager
Bell Communications Research
444 Hoes Lane, Room 4d-512
Piscataway, NJ 08854

American Association for Artificial Intelligence

Dr. B. Chandrasekaran
Professor
Ohio State University
Department of Computer Science
2036 Neil Avenue Mall
Columbus, OH 43210

Simulation

Dr. James D. Palmer
Bdm. International Professor of
Information Technology
George Mason University
103 Science & Technical Building
4400 University Drive
Fairfax, VA 22030

ULTRASONICS, FERROELECTRICS AND FREQUENCY CONTROL

Operations Research Society of America

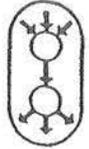
Dr. Chelsea C. White
Department of Systems
Engineering
University of Virginia
Charlottesville, VA 22906

The American Ceramics Society

Prof. David A. Payne
Dept of Materials Science and Engineering
University of Illinois at Urbana -
Champaign
Urbana, IL 61801
(217) 333-2937
Fax: (217) 333-5877



NEURAL NETWORKS COUNCIL



Walter Karplus
Chair, Standards Committee

PLEASE REPLY TO:
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3732 Boelter Hall
Los Angeles, CA 90024 USA
Tel: (213) 825-2929
Fax: (213) 825-2273
karplus@cs.ucla.edu

June 3, 1991

Professor Robert J. Marks II
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

Thank you for agreeing to become a member of the Standards Committee of the Neural Networks Council (NNC) of the IEEE. The drafting and implementation of technical standards is one of the major enterprises of the IEEE, and it may eventually become an important activity of the NNC. It is our intent to approach this task in a deliberate manner, not to rush in and standardize prematurely, but to have the mechanisms in place to do what is needed when it is needed. Initially we may limit ourselves to the development of a glossary of Artificial Neural Network Terminology. Standards for benchmarks, software systems and hardware may or may not follow, as influenced by the evolution of the neural network field.

As I mentioned to you, it is the purpose of the Standards Committee to oversee the standards activities of the Council. The actual work on the glossary and the standards will be carried out by large working groups that will include interested individuals from industry, academia, and government and private laboratories all over the world. Our committee will decide on the nature and timing of new projects to be launched, the manner of forming the working groups, the interactions that we may have with other societies, such as INNS and SCS, and similar matters.

The following have agreed to join the Standards Committee:

David K. Andes, Naval Weapons Center, China Lake, CA
Ralph Castain, Los Alamos National Laboratory, NM
Russell Eberhart, Johns Hopkins University, Laurel, MD
Richard P. Lippmann, MIT Lincoln Laboratory, Lexington, MA
Robert J. Marks, University of Washington, Seattle, WA
Mary Lou Padgett, Auburn University, AL (vice-chair)
Robert T. Savely, NASA Johnson Space Center, Houston, TX
Bernard Widrow, Stanford University, CA

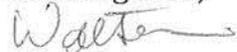
Two or three additional individuals, including some from overseas, may also join the Committee.

The first meeting of our committee will take place at the IJCNN in Seattle. We will meet on Sunday, July 7 at 6:00 PM in Room 602 at the Convention Center. I will describe the manner in which the IEEE handles standards - the bureaucratic procedures that have been set up, the help that we can get from the IEEE, etc. Mary Lou Padgett will summarize the discussions of ANN standards at a preliminary meeting recently held at Auburn. We will then have a general discussion of hopes, dreams and some concrete plans.

On Tuesday, July 9 at 7:00 PM in Room 607 at the Convention Center, the Standards Committee will host an open meeting for all IJCNN attendees who are interested in participating standards activities. At that meeting we will go over some of the same ground as at the Sunday meeting and then invite inputs from all attendees. We may form one or more working groups at that point.

I had some trepidations about becoming the chair of the Standards Committee, and I have some reservations as to whether the neural network field is as yet sufficiently mature to benefit from formal standardization efforts. But as I thought about it, I became more and more excited about being influential at the very start of this activity, and I look forward to a stimulating and rewarding experience. And I hope that you feel or will come to feel more or less the same way. See you in Seattle.

Best regards,



Walter J. Karplus

file



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

June 21, 1991

To: IEEE Society Presidents
IEEE Society Education Chairs

From: Rae Toscano, Administrator
Educational Activities

Re: Society Education Chair List

Enclose, please find the most recent list of Society Education Chairs. Please look over the entry for your particular society and notify me of any discrepancies or changes. I can be reached at the above address, telephone (908) 562-5482, or compmail (r.toscano).

Thank you,

Rae Toscano

RT/rcj

cc: R. S. Nichols
R. A. Stampfl

chairs.mem/misc.memos/2/rsc

SOCIETY EDUCATION CHAIRMEN LIST

June 25, 1991

Dr. George J. Friedman **(AES)**
Vice President, Northrop Corp.
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Los Angeles, CA 90067
(213) 201-3311 (O)
Fax: (213) 201-3023

Prof. Richard C. Compton **(AP)**
School of Electrical Engrg.
Phillips Hall
Cornell University
Ithaca, NY 14853
(607) 255-9231 (O)
Fax: (607) 254-4565

Prof. Patricia D. Daniels **(CAS)**
Chair, Dept. of Elec. Engrg.
Seattle University
Broadway & Madison
Seattle, WA 98122-4460
(206) 296-5970 (O)
Fax: (206) 461-5257

Dr. Donald R. Ucci **(COMM)**
Director, Education
Illinois Institute of Technology
3301 South Dearborn
Room 136 Siegal Hall
Chicago, IL 60616
(312) 567-3405 (O)
Fax: (312) 567-3748

Prof. Paul Franzon **(CHMT)**
Dept. of Electrical and
Computer Engineering
North Carolina State University
232 Daniels Hall, Box 7911
Raleigh, NC 27695-7911
(919) 737-7350 (O)

Dr. Raymond E. Miller **(COMP)**
University of Maryland
Dept. of Computer Science
A. V. Williams Building
College Park, MD 20742
(301) 405-2675 (O)
Fax: (301) 405-6707
Compmail: r.e.miller
internet: miller@cs.umd.edu

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Texas Instruments, Inc.
2501 S Highway 121
P.O. Box 405 MS 3478
Lewisville, TX 75067
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Fax: (214) 462-2410

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Director, EIRC
University of Connecticut, U-136
97 North Eagleville Road
Storrs, CT 06269-3136
(203) 486-5298 (O)
Fax: (203) 486-5916
Telex: 994484-USA

Prof. Alan R. Klayton **(Ed)**
Head, Electrical Engrg. Dept.
U.S. Air Force Academy
DFEE
Colorado Springs, CO 80840
(719) 472-3190 (O)
Fax: (719) 372-3135

Prof. Clayton R. Paul, Jr. **(EMC)**
Dept. of Electrical Engrg.
University of Kentucky
Lexington, KY 40506
(606) 257-1644 (O)
Fax: (606) 257-3342

SOCIETY EDUCATION CHAIRMEN

June 17, 1991

PAGE THREE . . .

Prof. Deepakraj M. Divan **(PEL)**
Dept. of Electrical & Comp. Engrg.
University of Wisconsin
1415 Johnson Drive
Madison, Wisconsin 53706
(608) 262-5702 (O)
Fax: (608) 262-1267

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ECSE Dept.
Troy, NY 12180
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College of Engineering
Illinois Institute of Technology
Chicago, IL 60616
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The Roning Group, Inc.
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Winnipeg, Manitoba
CANADA R3M 3J2
(204) 488-7060 (H/O)
Fax: (204) 488-7294
Comppmail: r.blicq@comppmail.com

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Milwaukee, WI 53201
(414) 229-4168 (O)

Prof. John Hadjilogiou **(R)**
Department Head
Florida Institute of Tech
Electrical & Computer
Engineering Dept.
150 W. University Blvd.
Melbourne, FL 32901-6988
(407) 768-8000 Ext. 7331 (O)
Fax: (407) 984-8461

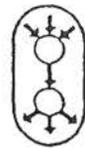
Prof. David J. Goodman **(VT)**
Department Chair
Electrical Engineering Department
Rutgers University
P.O. Box 909
Piscataway, NJ 08855
(908) 932-3262 (O)
Fax: (908) 932-3693

Dr. Pradeep K. Khosla **(RA)**
Associate Professor
Dept. of Electrical & Computer Engrg.
Carnegie Mellon University
Pittsburgh, PA 15213-3890
(412) 268-5090 (O)
Fax: (412) 268-2860

/rcj
socchair.ros/rosters



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 26, 1991

Commercial Section
Chinese Embassy
2300 Connecticut Avenue NW
Washington, DC 20008
FAX (202) 232-7855

Gentlemen:

The Institute of Electrical and Electronics Engineers (IEEE) and International Neural Network Society (INNS) are sponsoring the IJCNN-'91 Conference in Seattle, Washington, July 8-12, 1991 (see enclosed). IJCNN-'92 will be held in Beijing.

Prof. Yi-Xin Zhong is Program Co-Chairman of the Beijing Conference. Therefore, it is necessary for Prof. Yi-Xin Zhong to make a report to the conference in Seattle about the technical program activities for the '92 conference, for him to be able to observe the Seattle conference, and for him to enter into discussion on the detailed arrangements needed for such a large meeting.

I am writing at the request of the President of the Neural Network in China because it is most important that Prof. Yi-Xin Zhong be present at the Seattle meeting. He asked that you send a confirmational reply to the Ministry of Posts and Telecon, Beijing, China, in care of

Prof. Yi-Xin Zhong
University of Posts & Telecon
Beijing 100088
FAX: 86-01-208-1673

As you can see the conference is only two weeks away. We would appreciate your prompt attention to this matter and we thank you for your help.

Please call me if there is any further information that you need.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

BC: Russ Eberhart

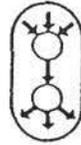
✓ file

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 26, 1991

James C. Bezdek
Nystul Professor - Computer Science
The University of West Florida
11000 University Parkway
Pensacola, Florida 32514-5750

Dear Jim:

I am delighted to inform you that two other IEEE Societies have agreed to be in cooperation with FUZZ-IEEE

IEEE Systems, Man and Cybernetics Society

IEEE Control Systems Society

Sincerely,

Robert J. Marks II, President
Neural Networks Council

CC: Bernard Freedland, IEEE Control Syustems Society
James Tien, IEEE SMC
Nomi Feldman, Meeting Management

file



CONTROL SYSTEMS SOCIETY

Please address reply to:
Bernard Friedland
Dept. of Electrical and Computer Engineering
New Jersey Institute of Technology
Newark, NJ 07102

Telephone: (201)596-3509
FAX (201)643-3934
e-mail: bxf3243@tesla.njit.edu

June 7, 1991

Dr. Robert J. Marks II
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

Please excuse this belated response to your letter of February 8, 1991 to Professor Alan Laub. The IEEE Control Systems Society will be pleased to support the forthcoming International Conference on Fuzzy Systems in to be held in San Diego in March 1992.

As you pointed out in your letter, we are already co-sponsors of the Conference thorough our membership in the Council on Neural Networks. We are prepared to assist with program planning and wherever else we can be helpful.

By copy of this letter I am requesting the Editor of the Control Systems Magazine to provide the customary publicity for the meeting.

Please keep me informed of significant progress and all good wishes for the success of the conference.

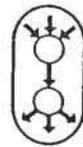
Sincerely,



Bernard Friedland
Vice President, Conferences



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 26, 1991

Dr. Evangelia Tzanakou
Biomedical Engineering
Rutgers University
P. O. Box 908
Piscataway, New Jersey 08854

Dear Litsa:

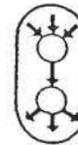
I hereby approve support of your travel to attend the NNC AdCom meeting in Seattle in July.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

CC: Patrick Simpson, NNC Treasurer

A handwritten signature in cursive script, appearing to read 'RJM'.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 20, 1991

TO: NNC Meetings Committee

At the recommendation of James C. Bezdek, FUZZ-'92 Chair, and with the concurrence of Russ Eberhart, NNC Vice President, I hereby recommend for Chair of FUZZ-IEEE '93

Dr. Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94205
415-859-234
e-mail: ruspini@ai.sri.com

Dr. Bezdek has agreed to participate in the '93 Conference in the title of Past Chair.

Sincerely,

Robert J. Marks II, President
Neural Networks Council



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO

February 21, 1991

Mr. Patrick K. Simpson
General Dynamics, Electronics Division
17436 Ashburton Road
San Diego, CA 92128

Dear Patrick:

Per letter from Dr. Marks, the enclosed budget for IJCNN-92 Baltimore is sent to you for your presentation to the ExCom. The budget is basically the same as presented at the AdCom meeting at Baltimore in January, except for the addition of contingency expense (\$10,000) as suggested by the committee.

I have also removed the registration fee for four tutorials, since that is not possible. The current plan is to have three-hour tutorials instead of the previous two-hour tutorials. Thus the tutorials will run 9 - 12 noon, 1 - 4 pm, and 5 - 8 pm with about 5 tutorials in parallel. Therefore the most a person can attend is three tutorials. I feel that a three-hour tutorial would be a lot more useful and educational than the previous two-hour ones. In fact I actually thought about four-hour tutorials but canned the idea.

As I mentioned to you in the previous letter, I have selected Dr. Patrick Shoemaker at the Naval Ocean Systems Center as the Finance Chair for IJCNN-92 Baltimore. Whenever you are ready, please send the seed money to him. His mailing address is: Code 552, Solid State Electronics Division, NOSC, San Diego, CA 92152. Tel. (619)553-5385.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Clifford Lau", followed by a long horizontal line extending to the right.

Clifford Lau
(703)696-4961

Cc: Dr. Robert J. Marks II ←
Dr. Pat Shoemaker

IJCNN'92 Baltimore Preliminary Budget

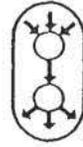
	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$528,400	\$595,050	\$661,700	\$728,350	\$795,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$578,400	\$645,050	\$711,700	\$778,350	\$845,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$44,700	\$84,350	\$121,800	\$157,050	\$192,300

IJCNN'92 Baltimore Preliminary Incomes

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before April 20, 1992		\$245	\$285	\$75		
3	After April 20, 1992		\$295	\$335	\$90		
4	One day		\$100	\$120			
5	Tutorials -one	\$125					
6	-two	\$235					
7	- three	\$330					
8	Exhibitors (per booth)	\$950					
9	Publisher (per booth)	\$650					
10	Proceeding sales	\$80					
11							
12	Estimated attendees		1,200	1,400	1,600	1,800	2,000
13							
14	Early - member (25%)		\$73,500	\$85,750	\$98,000	\$110,250	\$122,500
15	Early - nonmember (10%)		\$34,200	\$39,900	\$45,600	\$51,300	\$57,000
16	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
17	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
18	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
19	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
20							
21	Registration Income		\$296,400	\$345,800	\$395,200	\$444,600	\$494,000
22							
23	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
24							
25	Tutorial income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
26							
27	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
28							
29	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
30							
31	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
32							
33	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
34							
35							
36	Total Income		\$528,400	\$595,050	\$661,700	\$728,350	\$795,000

IJCNN'92 Baltimore Preliminary Expenses Budget

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mallings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening receptor	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilitites		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 4, 1991

Dr. Kie-Bum EOM
Department of Electrical Engineering
and Computer Science
The George Washington University
Washington, D. C. 20052

Dear Dr. Kie-Bum:

Thank you for your submission to the Singapore IJCNN. I have forwarded your submission to Ms. Nomi Feldman who is assisting in the coordination of the review.

Sincerely,

A handwritten signature in cursive that reads "Robert J. Marks II". There is a small mark below the signature that looks like "w".

Robert J. Marks II
North American Liaison

cc: Nomi Feldman

File

Technology Resource Center
Arthur D. Little, Inc.
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20024-2119
USA

Telephone 202.646.1500
Telefax 202.479.0311

May 29, 1991

Dr. Robert J. Marks II
University of Washington
Department of Electrical Engineering
Seattle, WA 98195

Dear Dr. Marks II:

Dr. EOM and myself are pleased to submit the attached paper for the IJCNN '91 Singapore. As requested we have included one original and seven copies. The corresponding authors are:

Dr. Kie-Bum EOM
Department of Electrical Engineering and Computer Science
The George Washington University
Washington, DC 20052
Tel. 202-994-5505

Mr. Gilles Houle (Ph.D student at The George Washington University)
Arthur D. Little, Inc.
955 L'Enfant Plaza, S.W., Suite 4200
Washington, DC 20024-2119
Tel. 202-646-1500 (ext. 203)
Fax 202-479-0311

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Arthur D Little

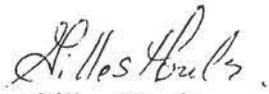
The ORAL presentation is preferred.

The first and second choice for the technical sessions are:

- 1 - Image Processing
- 2 - Applications

If accepted, I (Gilles Houle) will present this paper. Should you have any questions, please give us a call.

Sincerely,

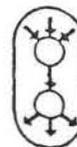


Gilles Houle
Consultant

cc: Dr. Kie-Bum EOM



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 11, 1991

Dr. Russell Eberhart, Treasurer
IEEE Baltimore Section
JHU Applied Physics Laboratory
Johns Hopkins Roads
Laurel, MD 20707

Dear Dr. Eberhart:

In Dr. El-Sharkawi's absence I have enclosed receipts for expenses and an expense report for Dr. El-Sharkawi for teaching the PICA short course. He approved the draft I had drawn up before he left town.

Will you please see that he is reimbursed \$1,322.86 for expenses plus the \$500 honorarium.

Sincerely,

Ruth A. Wagner
Secretary to Dr. Marks

Enclosures

Sile

206-543-3842



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 238411 FAX (212) 705-7682

DIRECT NUMBER (212) 705-581

PUBLISHING
FAX Number 212-705-7682

Date 6/19/91

To Bob Marks

From Ann Burgmeyer
Telephone 212-705-7581

SUBJECT: Applications of Neural Networks to Power Systems

Number of pages (including this one) 4

High Priority Please Deliver Immediately

Normal Processing

Please call when received 212-705-7581

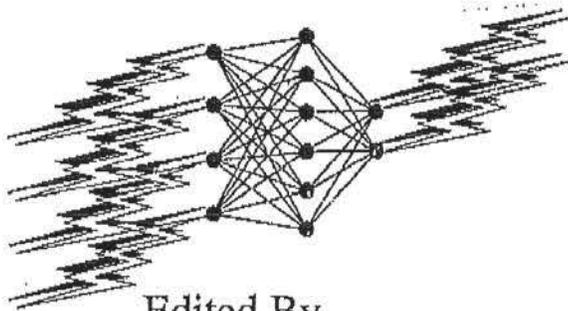
COMMENTS:

Here are three possibilities for covers
Please call with your comments.
Thanks.

Ruth, ASAP
① Call Ann.
I like C
best. (done)
② Ship Proceedings
to Hotel
Hilton
downtown
- Bob

*PROCEEDINGS OF THE FIRST
INTERNATIONAL FORUM ON*

**APPLICATIONS OF
NEURAL NETWORKS
TO POWER SYSTEMS**



Edited By

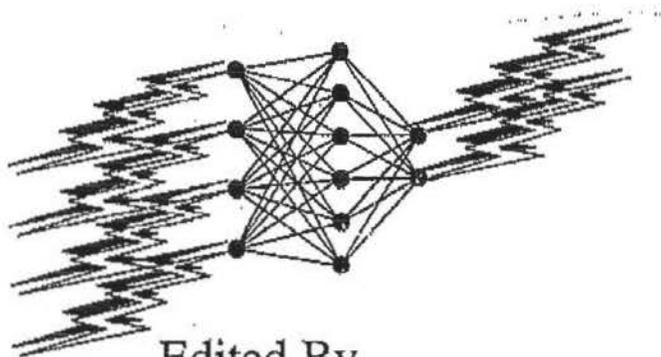
MOHAMED A. EL-SHARKAWI
ROBERT J. MARKS II

SEATTLE, WASHINGTON
JULY 23-26, 1991



SAMPLE A

PROCEEDINGS OF THE FIRST
INTERNATIONAL FORUM ON
APPLICATIONS OF
NEURAL NETWORKS
TO POWER SYSTEMS



Edited By

MOHAMED A. EL-SHARKAWI
ROBERT J. MARKS II

SEATTLE, WASHINGTON
JULY 23-26, 1991

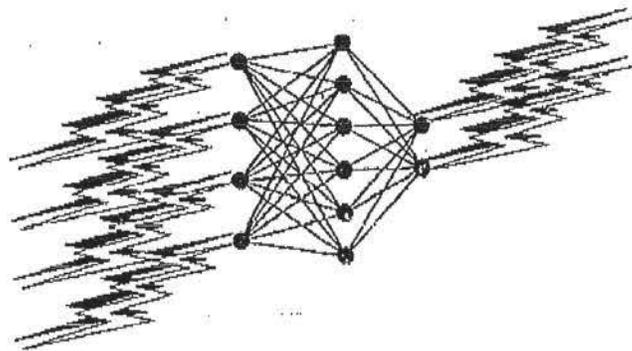


PRODUCT NUMBER

SAMPLE B

PROCEEDINGS OF THE FIRST
INTERNATIONAL FORUM ON

**APPLICATIONS OF
NEURAL NETWORKS
TO POWER SYSTEMS**



Edited By

MOHAMED A. EL-SHARKAWI
ROBERT J. MARKS II

SEATTLE, WASHINGTON
JULY 23-26, 1991



PRODUCT NUMBER

Sample e

Jun 17 08:29 1991 standard input Page 1

From marks@u.washington.edu Fri Jun 14 20:25:24 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu (4.0/SMI-4.0)
id AA25823; Fri, 14 Jun 91 20:25:22 PDT
Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA04995; Fri, 14 Jun 91 20:24:28 -0700
Date: Fri, 14 Jun 91 20:24:28 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9106150324.AA04995@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Cc: d43131a@nucc.nagoya-u.ac.jp, marks@milton.u.washington.edu
Status: R

From d43131a@nucc.cc.nagoya-u.ac.jp Thu Jun 13 20:39:41 1991
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA07333; Thu, 13 Jun 91 20:39:39 -0
Received: from [133.6.1.8] by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA12611; Thu, 13 Jun 91 20:39:32 -0
Received: from nucc.cc.nagoya-u.ac.jp by nupost.cc.nagoya-u.ac.jp (5.65+1.6
id AA16740; Fri, 14 Jun 91 12:40:50 JST
Received: by nucc.cc.nagoya-u.ac.jp (4.12/6.4J.6)
id AA18234; Fri, 14 Jun 91 12:39:09 JST
Date: Fri, 14 Jun 91 12:39:09 JST
From: d43131a@nucc.cc.nagoya-u.ac.jp (Tosio Fukuda)
Return-Path: <d43131a@nucc.cc.nagoya-u.ac.jp>
Message-Id: <9106140339.AA18234@nucc.cc.nagoya-u.ac.jp>
To: marks@blake.u.washington.edu
Status: O

I put the getlemen who require the invitation letter. Could
you send it by both fax and ordinary mail?

Mr. Takahiro Nagai
Economic Affairs Bureau
City of Nagoya
1-1, San-no-maru-3chome
Naka-ku, Nagoya 460-08
Japan
TEL: +81-52-972-2418
FAX: +81-52-972-4135

Mr. Kazuyoshi Tominaga
Economic Affairs Bureau
City of Nagoya
1-1, San-no-maru-3chome
Naka-ku, Nagoya 460-08
Japan
TEL: +81-52-972-2417
FAX: +81-52-972-4135

Jun 17 08:29 1991 standard input Page 2

Mr. Akira Kojima
Director
Commerce and Industry Department
Chubu Bureau of International Trade and Industry
Ministry of International Trade and Industry
5-2, San-no-maru-2chome
Naka-ku, Nagoya 460
Japan
TEL: +81-52-951-2551
FAX: +81-52-961-4780

Mr. Minami Ichikawa
Director-General
Aichi Prefectural Government
1-2, San-no-maru-3chome
Naka-ku, Nagoya 460-01
Japan
TEL: +81-52-961-2111
FAX: +81-52-951-7623

PS: Mr. Minami Ichikawa is new director-general in Aichi prefectural Government.

Thank you for your kind cooperation.

With my best wishes,

Toshio Fukuda

Ruth,

FAX & send these people the following on NNC stationary:

Dear Dr. *****

At the recommendation of Toshio Fukuda, Steering Committee Chair of the 1993 Japan IJCNN, I hereby invite you to attend the Seattle IJCNN for the purpose of information gathering and organization of your conference. The (Skip 'The')

I am sorry that the Neural Networks Council nor the Seattle IJCNN has funds to support your travel. Nevertheless, I hope you can attend. I look forward to meeting you in Seattle.

R.J. Marks II, President
IEEE Neural Networks Council

Jun 17 08:28 1991 standard input Page 1

From marks@u.washington.edu Fri Jun 14 20:28:17 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu (4.0/SMI-4.0)
id AA25828; Fri, 14 Jun 91 20:28:16 PDT
Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA05217; Fri, 14 Jun 91 20:27:37 -0700
Date: Fri, 14 Jun 91 20:27:37 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9106150327.AA05217@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: wagner@essex.ee.washington.edu
Subject: READ ME!
Cc: marks@milton.u.washington.edu
Status: R

Ruth, Instead of the previous letter, use the following . (Polish the English). ADD the line about no money.

Thanks! Bob

From d43131a@nucc.cc.nagoya-u.ac.jp Thu Jun 13 20:39:00 1991
Received: from blake.u.washington.edu by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA07288; Thu, 13 Jun 91 20:38:57 -C
Received: from [133.6.1.8] by blake.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA12605; Thu, 13 Jun 91 20:38:49 -C
Received: from nucc.cc.nagoya-u.ac.jp by nupost.cc.nagoya-u.ac.jp (5.65+1.6
id AA16735; Fri, 14 Jun 91 12:40:01 JST
Received: by nucc.cc.nagoya-u.ac.jp (4.12/6.4J.6)
id AA18215; Fri, 14 Jun 91 12:38:19 JST
Date: Fri, 14 Jun 91 12:38:19 JST
From: d43131a@nucc.cc.nagoya-u.ac.jp (Tosio Fukuda)
Return-Path: <d43131a@nucc.cc.nagoya-u.ac.jp>
Message-Id: <9106140338.AA18215@nucc.cc.nagoya-u.ac.jp>
To: marks@blake.u.washington.edu
Status: O

file*Bob614

Re: Sample of Invitation letter for IJCNN'91-Seattle

Dear Mr. Nagai:

As president of IEEE Neural Network Council, I would like to ask you to participate IJCNN'91-Seattle conference (July 8 - 12), cosponsored by our IEEE Council and INNS.

Since this conference will be held in Japan in 1993, it will give you great insights to prepare the conference for 1993 conference, where you play an important role for the organization. I am sure you will get good organizational experiences in this big conference.

Jun 17 08:28 1991 standard input Page 2

Also, Seattle is a good location for the space industry, such as Boeing Corporation you will find the good cooperation between universities and industries here.

Sincerely yours,

Robert A. Marks, II
President
IEEE Neural Network Council

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Mr. Takahiro Nagai
Name of Firm: Economic Affairs Bureau - City of Nagoya
Location of Firm: Nagoya, Japan 1-1, San-no-maru, 3 chome
Facsimile Telephone Number: _____
From: Dr. Robert J. Marks II Phone: (206) 543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 6/17/91 Time: _____

Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Mr. Kazuyoshi Tomioka
Name of Firm: Economic Affairs Bureau - City of Nagoya
Location of Firm: Nagoya, Japan 1-1, San-no-maru-3 chome
Facsimile Telephone Number: _____
From: Dr. Robert J. Marks II Phone: (206) 543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 6/17/91 Time: _____

Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

MESSAGE CONFIRMATION

DATE:06/17/91 TIME:15:22

ID:UW ELEC. ENG. DE

DATE	TIME	TX-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
06/17	15:20	01'45"	868P01181529724135PP	G3-S	004	OK

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Mr. Akira Kohmura - Commerce and Industry Department

Name of Firm: _____

Location of Firm: Nagoya, Japan

Facsimile Telephone Number: _____

From: Dr. Robert J. Marks II Phone: (206) 543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 6/17/91 Time: _____

Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

MESSAGE CONFIRMATION

DATE:06/17/91 TIME:15:25

ID:UW ELEC. ENG. DE

DATE	TIME	TX-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
06/17	15:24	00'50"	052 961 4780	G3-S	002	OK

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Mr. Minami Ichikawa Director-General

Name of Firm: Aichi Prefectural Government

Location of Firm: Nagoya, Japan

Facsimile Telephone Number: _____

From: Dr. Robert J. Marks II Phone: (206)543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 6/17/91 Time: _____

Comments: _____

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

MESSAGE CONFIRMATION

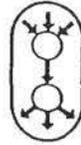
DATE:06/17/91 TIME:15:30

ID:UW ELEC. ENG. DE

DATE	TIME	TX-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
06/17	15:29	00'57"	868P01181529517623PP	G3-S	002	OK



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

June 17, 1991

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Mr. Takahiro Nagai
Economic Affairs Bureau
City of Nagoya
1-1, San-no-maru-3chome
Naka-ku, Nagoya 460-08
Japan

Dear Mr. Nagai:

As President of IEEE Neural Network Council, I would like to ask you to participate in the IJCNN'91-Seattle conference (July 8-12), cosponsored by our IEEE Council and INNS.

Since this conference will be held in Japan in 1993, your attendance would give you great insights in preparing for the 1993 conference, where you play an important role for the organization. I am sure you would gain good organizational experience from this large conference.

Also, Seattle is a good location for the space industry, such as Boeing Corporation. You will find good cooperation between universities and industries here.

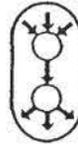
I am sorry that neither the Neural Networks Council nor the Seattle IJCNN has funds to support your travel. Nevertheless, I hope you can attend. I look forward to meeting you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

June 17, 1991

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Mr. Kazuyoshi Tominaga
Economic Affairs Bureau
City of Nagoya
1-1, San-no-maru-3chome
Naka-ku, Nagoya 460-08
Japan

Dear Mr. Tominaga:

As President of IEEE Neural Network Council, I would like to ask you to participate in the IJCNN'91-Seattle conference (July 8-12), cosponsored by our IEEE Council and INNS.

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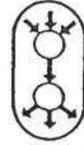
I am sorry that neither the Neural Networks Council nor the Seattle IJCNN has funds to support your travel. Nevertheless, I hope you can attend. I look forward to meeting you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

June 17, 1991

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Mr. Minami Ichikawa
Director-General
Aichi Prefectural Government
1-2, San-no-maru-3chome
Naka-ku, Nagoya 460-01
Japan

Dear Mr. Minami:

As President of IEEE Neural Network Council, I would like to ask you to participate in the IJCNN'91-Seattle conference (July 8-12), cosponsored by our IEEE Council and INNS.

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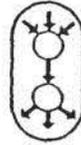
I am sorry that neither the Neural Networks Council nor the Seattle IJCNN has funds to support your travel. Nevertheless, I hope you can attend. I look forward to meeting you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

June 17, 1991

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Mr. Akira Kojima, Director
Commerce and Industry Department
Chubu Bureau of International Trade and Industry
Ministry of International Trade and Industry
5-2, San-no-maru-2chome
Naka-ku, Nagoya 460
Japan

Dear Mr. Kojima:

As President of IEEE Neural Network Council, I would like to ask you to participate in the IJCNN'91-Seattle conference (July 8-12), cosponsored by our IEEE Council and INNS.

Since this conference will be held in Japan in 1993, your attendance would give you great insights in preparing for the 1993 conference, where you play an important role for the organization. I am sure you would gain good organizational experience from this large conference.

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I am sorry that neither the Neural Networks Council nor the Seattle IJCNN has funds to support your travel. Nevertheless, I hope you can attend. I look forward to meeting you in Seattle.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Marks II". The signature is written in a cursive style with a large 'R' and 'M'.

Robert J. Marks II, President
IEEE Neural Networks Council

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Marilyn Pusan
Name of Firm: IEEE - Technical Activities
Location of Firm: Piscataway, NJ 08855-1331
Facsimile Telephone Number: (908) 562-1571
From: R Wagner Phone: (206-543-6061)
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 4 pages.

Date: 6/20/91 Time: _____

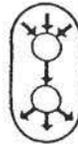
Comments: ① Hand copy being sent today
② Dr. Marks inquired about the certificate for Herb Rauch - plz
call with info. Thx

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 18, 1991

Marilyn Prusan
IEEE Technical Activities
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Marilyn:

Would you please order stationery only for Dr. El-Sharkawi and Dr. Kartolopolous. Samples are enclosed.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob' followed by a flourish.

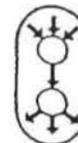
Robert J. Marks II, President
Neural Networks Council

Enclosures



IEEE

NEURAL NETWORKS COUNCIL



Mohamed A. El-Sharkawi
~~XXXXXXXXXXXX~~
~~President~~
Chair, Video Tutorials Committee

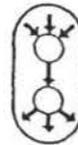
PLEASE REPLY TO:
~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~
Department of Electrical Engineering, FT-10

no space →
space →

University of Washington
Seattle, WA 98195 USA
Tel: (206) ~~543-3842~~ 685-2286
~~Telex (206) 778-8950~~
FAX: (206) 543-3842
e-mail: ~~marks@lek.washington.edu~~
melshark@uwave.engr.washington.edu



NEURAL NETWORKS COUNCIL



~~Robert J. Marks II~~
~~President~~
~~XXXXXXXX~~

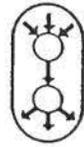
PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (C)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Stamatis Kartalopoulos
NNC Liaison to the IEEE Press

PLEASE REPLY TO:
AT&T Bell Laboratories
1 Whippany Road
Whippany, New Jersey 07981
USA

Tel: (201) 386-4289
FAX: (201) 386-6346



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 17, 1991

Roy S. Nutter, Jr., Chair
NNC Meetings Committee
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

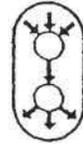
I hereby approve your request for reimbursement of travel expenses to attend the NNC AdCom Meeting in Seattle in July.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

CC: Patrick K. Simpson

✓ *Sde*



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 17, 1991

Roy S. Nutter, Jr., Chair
NNC Meetings Committee
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Roy:

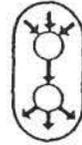
I hereby approve your request for reimbursement of travel expenses to attend the NNC AdCom Meeting in Seattle in July.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

CC: Patrick K. Simpson

✓ *See*



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 14, 1993

Evangelia Tzanakou, Secretary
IEEE Neural Networks Council
Biomedical Engineering
Rutgers University
P.O. Box 909
Piscataway, NJ 08854

Dear Litsa:

The attached letter from Irving Engelson to Dr. Nicholas DeClaris
is for the record.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Roy Nutter, Meetings Committee
Russ Eberhart, NNC Vice President
Patrick K. Simpson, NNC Treasurer

✓ *Sile*



IEEE

TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833-233

OFFICE OF THE STAFF DIRECTOR

(201) 562-3900

May 22, 1991

Dr. Nicholas DeClaris
Professor of EE & Pathology/
Preventive Medicine
University of Maryland
Electrical Engineering Department
and School of Medicine
College Park, MD 20742

Dear Dr. DeClaris:

In his letter to you of March 15, 1991, Dr. Robert J. Marks, President of the IEEE Neural Networks Council, requested that you transfer the remaining funds from the IEEE 1989 IJCNN account to us at Headquarters by April 15, 1991. We understand from Dr. Marks' letter that the amount which remains with you is on the order of \$2000.

According to our records we have not yet received these funds. Our Audit Committee is currently reviewing various accounting procedures, including those related to conferences. I am therefore anxious to bring all such outstanding accounts to closure.

I would appreciate it if you would remit to us the outstanding IEEE funds as requested by Dr. Marks in his letter.

Sincerely,

A handwritten signature in dark ink, appearing to read "I. Engelson".

Irving Engelson
Staff Director

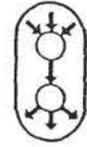
IE:fek

cc: W. B. Behnke, Jr., Chairman, IEEE Audit Committee
D. Jaron, Chairman, Technical Meetings Council
R. J. Marks, II, President, Neural Networks Council



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 14, 1991

Mohamed El-Sharkawi, Chair
NNC Video Education Committee
Department of EE - FT-10
University of Washington
Seattle, Washington 98195

Dear Mohamed:

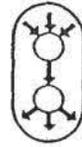
As you can see in the attached brochure, there are several tutorials being offered at IEEE CNNOE. Consistent with our proposed procedure one or more of these can be placed in a studio environment for recording apart from the conference. Dr. Bezdek's tutorial, in particular, would have a timely market.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Patrick K. Simpson, NNC CNNOE Chair
Peter Wiesner, IEEE EAB

See



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 14, 1991

Mohamed El-Sharkawi, Chair
NNC Video Education Committee
Department of EE - FT-10
University of Washington
Seattle, Washington 98195

Dear Mohamed:

As you can see in the attached brochure, there are several tutorials being offered at IEEE CNNOE. Consistent with our proposed procedure one or more of these can be placed in a studio environment for recording apart from the conference. Dr. Bezdek's tutorial, in particular, would have a timely market.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Patrick K. Simpson, NNC CNNOE Chair
Peter Wiesner, IEEE EAB

See

m e e t i n g m a n a g e m e n t

5665 oberlin drive
suite 110
san diego
california
92121

(619)
453 6222
fax (619)
535-3880

DATE: June 12, 1991

TOTAL PAGES: 3

TO: Professor Robert Marks

FAX #: 206 543-3842

From: Nomi Feldman

FAX #: (619) 535-3880

Re: President's Forum

Enclosed please find 2 samples for the printing of the flyers for the Forum. Let me know which one you prefer.

- 6/13/91
- ① Choose all centered
 - ② take first comma out of Marks name
 - ③ change to Presidents' Forum

NEURAL NETWORKS PRESIDENT'S FORUM

Sponsored by
The IEEE Neural Networks Council

Participants:

Professor Zong Sha
President
Chinese Neural Networks Committee
CHINA

Professor Rolf Eckmiller
Joint European Neural Network Initiative
EUROPE

Kunihiko Fukushima
President
Japanese Neural Networks Society
JAPAN

Professor Witali L. Dunin-Barkowski
President
Russian Neural Network Society
USSR

Moderator
Professor Robert J. Marks, II
President
IEEE Neural Networks Council



Wednesday, July 10, 1991

6:30 p.m. - 8:00 p.m.

Room 612

Washington State

Convention Center

Seattle, Washington

NEURAL NETWORKS PRESIDENT'S FORUM

Sponsored by
THE IEEE NEURAL NETWORKS COUNCIL

Participants:

Professor Zong Sha, President
Chinese Neural Networks Committee
CHINA

Professor Rolf Eckmiller
Joint European Neural Network Initiative
EUROPE

Kunihiko Fukushima, President
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USSR

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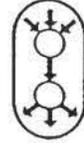
Wednesday, July 10, 1991

6:30 p.m. - 8:00 p.m.

Room 612

Washington State Convention Center
Seattle, Washington





NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-11-91

Bradley Dickinson
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544

Dear Brad,

I hereby approve reimbursement of your travel expenses from Council funds to attend the Seattle NNC AdCom meeting in July. An IEEE form, with original receipts, should be sent directly to Council Treasurer, Patrick K. Simpson.

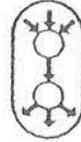
Sincerely,

A handwritten signature in black ink, appearing to read 'R. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson, NNC Treasurer

File



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-11-91

Mohamed A. El-Sharkawi, Chair
NNC AdHoc Committee on Video Tutorials
Dept. of Electrical Engineering
University of Washington, FT-10
Seattle, WA 98195
206 685 2286
FAX:(206) 543-3842
elsharkawi@u.washington.edu

Dear Mohamed,

My evil twin brother, Trebor, said that you called Sunday. I occasionally have problems with Trebor when he gets overly tired. We also think that he is buying shoes that are too tight. I hope he wasn't rude to you, and apologize if he was.

The time is so short to put together the Pioneer lectures. The best thing to do, I think, is to put the IEEE EAB proposal before the AdCom for approval. In fact, this is procedurally the proper way to go. If you would like the AdCom to see the proposal before the meeting, I'll need the EAB proposal before June 20. I will check with Paulette to see if there is a copy. If we don't make the 20th, we'll need about 40 copies for AdCom.

Thank you for getting the air tickets. The schedule looks great. Have a good time in Japan and enjoy the fish bait. Then we'll go to Monaco and dazzle the natives.

I'm going outside and have a long talk with Trebor. We're punishing him by requiring he retire early for the next month. We're seriously considering asking him to move.

Robert J. Marks II, President
IEEE Neural Networks Council



TRANSACTIONS ON SIGNAL PROCESSING

*Dr. Wheeler,
all items
enclosed as
requested
Bob Marks
3/ Seho Oh
6/11/91*

June 2, 1991

Dr. Seho Oh
University of Washington
Department of Electrical Engineering
FT-10
Seattle, WA 98195

PLEASE REPLY TO:
Pierce Wheeler
R.D. 3, Box 363, Route 24
Chester, NJ 07930 USA
Tel: (908) 879-5746
Fax: (908) 879-4549

Re: ASSP-4727, "Some Properties of the Generalized Time
Frequency Representation with Cone Shaped Kernel," by
S. Oh, R. J. Marks II.

Dear Dr. Oh:

The referenced paper has been approved for publication in
this transactions. In order to process the manuscript for
publication, we require the following items:

IEEE copyright form. ✓

Two copies of the final manuscript. ✓

Glossy photocopies of artwork/tables. Mechanically
aided lettering is required with a minimum letter
size of 6mm or 6 points. ✓

A separate list of figure/table captions. ✓

Brief biographies (including photo portraits, with the
name written on the backs). ✓

When I have received the above material, I will inform you
when your manuscript will be published and when you can
expect to receive galley proofs.

Thank you for your assistance.

Very truly yours,

Pierce Wheeler
Managing Editor

May 31, 1991

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
821 Engineering Science Building
Morgantown, West Virginia 26506

Dear Roy:

I write this letter in support of the proposed "IEEE Neural Networks Council Forum on Applications of Artificial Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing." All Forum proposals must be endorsed by a Neural Networks Council AdCom Member. With this letter, I hereby do so.

The Forum's proposed organizing committee consists of the researchers who pioneered the use of artificial neural networks to inverse scattering problems. Both Professors Ishimaru and Tsang are world renowned experts in the fields of scattering theory and remote sensing. Professor Hwang's work in inversion of artificial neural networks has attracted significant international attention.

Neural networks, interestingly, seem quite well suited to the solution of inverse problems. The reasons are two fold. First, the neural network can either be straightforwardly trained on the inverse physics or on the forward physics and inverted. In the test mode, inversion can be performed quite quickly in comparison to the typically required use of supercomputers. Secondly, a quite large volume of raw data exists from which to train the neural network. Data from remote sensing satellites is massive.

Neural network based solutions to inverse problems has potential use in a number of fields, including controls, robotics, medical imaging and remote sensing.

The field is timely and the credentials of the organizing committee are extremely strong. As a member of the AdCom of the IEEE Neural Networks Council, I recommend support of this Forum by the Neural Networks Council without reservation. I will be interfacing with the Forum by serving as Publications Chair.

Sincerely,

Robert J. Marks, President
Neural Networks Council

NNC

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

7 copies to Nutter
1 to Ish
1 to Tsang
1 to Chan
1 to Hwang
1 to Marly
May 29, 1991

All Forum proposals must be endorsed by a Neural Council Ad Com member. This letter is with this letter. I hereby do so.

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, WV 26506

Dear Professor Nutter:

as required

I write this letter in support of the proposed "IEEE Neural Networks Council Forum on Applications of Artificial Neural Network (ANN) Technology to Electromagnetic Inverse Problems and Remote Sensing." The Forum's proposed organizing committee consists of the researchers who pioneered the use of artificial neural networks to inverse scattering problems. Both Professors Ishimaru and Tsang are world renowned experts in the fields of scattering theory and remote sensing. Professor Hwang's work in inversion of artificial neural networks has attracted significant international attention.

Neural networks, interestingly, seem quite well suited to the solution of inverse problems. The reasons are two fold. First, the neural network can either be straightforwardly trained on the inverse physics or on the forward physics and inverted. In the test mode, inversion can be performed quite quickly in comparison to the typically required use of supercomputers. Secondly, a quite large volume of raw data exists from which to train the neural network. Data from remote sensing satellites is massive.

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The field is timely and the credentials of the organizing committee are extremely strong. As a member of the AdCom of the IEEE Neural Networks Council, I recommend support of this Forum by the Neural Networks Council without reservation. *I will be interfacing with the Forum by serving as Publications Chair.*
~~Statement of Involvement~~

In order to avoid conflict of interest, I hereby disclose the following involvement with the proposed Forum. As Publications Chair, I will be responsible for coordinating publication of the Forum Proceedings with IEEE. I also propose to participate technically in the conference through submission of one or more papers.

Sincerely,

Robert J. Marks, II *Pres*
Professor *NNC*

10000

FROM (COM) WASHINGTON ADDRESS *** Dept. of EE - FT-10 CITY STATE ZIP CODE (REQUIRED) SEATTLE WA 98195 SENT BY (NAME/DEPT.) PHONE R. J. Marks II (206)543-6990		ORIGIN SEA AIRBILL NUMBER 453387524 CUSTOMER AIRBORNE EXPRESS ACCOUNT NUMBERS SENDER RECEIVER METHOD OF PAYMENT (ASSUMED SENDER UNLESS OTHERWISE NOTED) <input type="checkbox"/> BILL SENDER <input type="checkbox"/> BILL RECEIVER AIRBORNE ACCOUNT NO. 1058436 <input checked="" type="checkbox"/> 3 RD PARTY CHECK NO. / AMOUNT <input type="checkbox"/> PAID IN ADVANCE	
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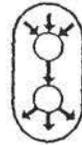
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University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 12, 1991

Danilo F. Bassi
Departamento de Ingenieria Industrial
Universidad de Chile
Casilla 2777
Santiago-Chile

Dear Dr. Bassi:

I have forwarded your submission to

Nomi Feldman, Conference Coordinator
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
U. S. A.

She will initiate the next stage of review.

Thank you for submitting your work to the Singapore IJCNN.

Sincerely,

Robert J. Marks II, U. S. A. Liaison
Singapore IJCNN

RJM:rw

cc. Nomi Feldman

File



UNIVERSIDAD DE CHILE
FACULTAD DE CIENCIAS FISICAS Y MATEMATICAS
DEPARTAMENTO DE INGENIERIA INDUSTRIAL

May 28, 1991

Dr. Robert J. Marks II
University of Washington
Department of Electrical Engineering
Seattle, WA 98195
USA

Dear Sir:

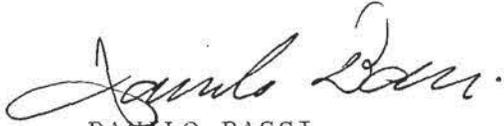
Enclosed is a paper entittled "Short and long term on-line combined learning for robotic control" to be considered for the International Joint Conference on Normal Networks, IJCNN'91 Singapore.

The prefered presentation is oral and the technical sessions are Robotics Control for the first choice and Applications for second choice.

The author and presenter information is:

Danilo F. Bassi
Departamento de Ingeniería Industrial
Universidad de Chile
Casilla 2777
Santiago-Chile

Sincerely yours,


DANILO BASSI

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

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B

IJCNN '91
July 8-12, 1991
SEATTLE, WASHINGTON

NEWS RELEASE

FOR IMMEDIATE RELEASE

June 5, 1991
FOR FURTHER INFORMATION CONTACT:
Nomi Feldman
Meeting Management
619/453-6222

IEEE NEURAL NETWORKS COUNCIL IS SPONSORING A PRESIDENTS' FORUM
AT IJCNN '91 IN SEATTLE, WASHINGTON

(NNC) Professor at the University of Washington and
Seattle, WA--Robert J. Marks, II, President of the IEEE Neural Networks Council has announced that for the first time the IEEE/NNC will be sponsoring a Presidents' Forum during IJCNN '91 in Seattle, Washington, July 8-12, 1991.

Europe artificial
The participants of the Presidents' Forum will be the Presidents of the major neural network societies of the world, including China, Germany, Japan and the USSR. The Forum will be open to conference attendees and the press on Wednesday evening, 6:30 p.m.-8:00 p.m., July 10, 1991 at the Washington State Convention Center in Seattle. Each President will give a short (15-20 minute) presentation of the activities of their society, followed by a short question/answer period. Robert J. Marks, II, will be this year's ~~emcee~~ moderator.

the China Neural Networks Committee
The Joint European Neural Network Initiative
the Japanese Neural Networks Society
and the Russian Neural Networks Committee Society

Flyer

A

the
IEEE NEURAL NETWORKS COUNCIL IS SPONSORING A
NEURAL NETWORKS PRESIDENTS' FORUM

sponsored by

Participants ~~from around the world including:~~

Professor Zong Sha, President
Chinese Neural Networks Committee
CHINA

Professor Rolf Eckmiller, ~~President~~

Europe — ~~GERMANY~~ *JENNI*

Kunihiko Fukushima, President
Japanese Neural Networks Society
JAPAN

*Joint European
Neural Network
Initiative*

*leave
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here*

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
USSR

MODERATOR

Professor Robert J. Marks, II, President
IEEE Neural Networks Council

Wednesday, July 10, 1991
6:30 p.m. - 8:00 p.m.
Room 611/612
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Seattle, Washington

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	Town Meeting Tickets 443-4186
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Kennett Square, PA 19348

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Coral Gables, FL 33124

American Mathematical Society
Proceedings Section
P.O. Box 6248
Providence, RI 02940

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New York, NY 10017

IEEE Transactions
on Information Theory
345 East 47th Street
New York, NY 10017-2394

IEEE Transactions on Acoustic, Speech
and Signal Processing
345 East 47th Street
New York, NY 10017-2394

Ms. Ann Burgmeyer
IEEE Transactions on Systems
Man & Cybernetics
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345 East 47th Street
New York, NY 10017-2394

IEEE Transactions Pattern
Analysis/Machine Intelligence
345 East 47th Street
New York, NY 10017-2394

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International Journal of Neural Networks
Research and Applications
Learned Information Inc
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Medford, NJ 08055

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Journal of New Generation
Computer Systems
ZK1 der AdW der DDR, PF 1298
Editorial Office
Berlin, WEST GERMANY, DDR-1086

Journal Optical Society of America
1816 Jefferson Place NW
Washington, DC 20036

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San Diego, CA 92111

Laser Focus - Optical Computing News
Ctr Optoelectric Computing Sys
Campus Box 425
University of Colorado
Boulder, CO 80309

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18th Floor
Foster City, CA 94404

MacWorld
501 Second Street
San Francisco, CA 94107

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Naval Air Development Center
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Worminstor, PA 18974

Mechanical Engineering
American Society of Mechanical
Engineering
345 E. 47th Street
New York, NY 10017

Micro Magazine
VLSI Technology Inc.
8375 S. River Pkwy
Tempe, AZ 85284

Mr. James Cayuoto
MicroPublishing Report
Editor
2115 Hawthorne Blvd
Suite 104
Torrance, CA 90503

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TRW Company
One Space Park
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Redondo Beach, CA 90276

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Networks and Neurocomputers News
PO Box 514
Damascus, MD 20872

Neural Computation
MIT Press Journals
55 Hayward Street
Cambridge, MA 02142

Neural Network Research
Pergamon Press
Maxwell House
Fairview Park
Elmsford, NY 10523

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Vicksburg, MI 49097

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2833 Valley Drive
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Portland State University
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School of Eng. & Applied Sci.
Portland, OR 97207

Mr. C.J. Essel
Power Engineering Review
5969 West 76th St
Los Angeles, CA 90045

Dr. Merrill Skolnik
Proceedings of the IEEE
Naval Research Laboratory
Washington, DC 20375

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Professional Communication
Western Electric Company
222 Broadway - Room 14433
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Progress in Machine Intelligence
& Pattern Recognition
Box 1619
College Park, MD 20740

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Electronics Research Lab Div
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Albuquerque, NM 87185

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Science News
1719 N Street N.W.
Washington, DC 20036

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425 Madison Avenue
New York, NY 10017

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Scripps Institute Oceanography
Marine Physical Lab
P-001
La Jolla, CA 92093

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2A120 Bell Tel Labs
Murray Hill, NJ 07974

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Software Magazine
Westborough Office Park
1900 West Park Drive
Westborough, MA 01581

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IBM T.J. Watson Research Ctr
P.O. Box 218, HO-804A
Yorktown Heights, NY 10598

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Symbolics, Inc
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Executive Park, East
Burlington, MA 01803

Synapse Connection Newsletter
Graeme Publishing Corp
Ten Northern Blvd
Amherst, NH 03031

Mr. Norman Balabanian
Technology and Society Magazine
Electronics & Computers
Syracuse University
111 Link Hall, Rm 113
Syracuse, NY 13210

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Texas Tech University
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Lubbock, TX 79409

The Mathematical Intelligencer
Springer-Verlag
175 Fifth Avenue
New York, NY 10010

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DATE: June 6, 1991 TOTAL PAGES: 9
TO: Prof. Marks
FAX #: 806 543-3842

From: Nomi
FAX #: (619) 535-3880

Dear Bob,

Sample A - is the copy for the
flyer

Sample B - is the proposed copy
for the news release

Please approve the text before
we proceed.

also enclosed is a list of
Journals we have. Should we send
the news release to all ?...
Have we missed anyone important ??

Thanks

Nomi

DEAR SOCIETY/COUNCIL PRESIDENT:

THE FOLLOWING QUESTIONNAIRE WAS PRESENTED AT THE TAB MEETINGS IN NOVEMBER 1989 AT TARPON SPRINGS. IT WAS SLIGHTLY MODIFIED ACCORDING TO COMMENTS RECEIVED AT THAT MEETING. THIS QUESTIONNAIRE IS TO AID IN FULFILLING THE REQUIREMENTS FOR EACH IEEE SOCIETY/COUNCIL TO REVIEW ITS OPERATION EVERY FIVE YEARS. THIS QUESTIONNAIRE IS INTENDED FOR THE SOCIETY/COUNCIL TO "SELF STUDY" ITSELF.

THIS INITIAL SURVEY IS BEING SENT TO ALL 1989 AND 1990 SOCIETY/COUNCIL PRESIDENTS AT THE REQUEST OF DR. TROY NAGLE, TAB CHAIRMAN 1990. PLEASE SEND REPLIES TO

BOB BEGUN

23609 SKYVIEW TERRACE

LOS GATOS, CA 95030

PHONE 408/353-1560

FAX 408/354-1463 (LIST MY PHONE NUMBER ON THE COVER SHEET)

BY 1 APRIL 1990. THE RESULTS WILL BE COLLATED AND SENT TO ALL COUNCILS/SOCIETIES BY 1 AUGUST 1990..

BOB BEGUN, SOCIETY SELF STUDY COMMITTEE CHAIRMAN

SOCIETY SELF STUDY QUESTIONNAIRE

1. FINANCE

staff

A. HOW DOES THE SOCIETY DERIVE ITS INCOME - CATEGORIES AND PERCENT FOR PAST TWO YEARS?
MEETINGS, TRANSACTIONS

staff

B. HOW DO YOU SPEND YOUR MONEY - CATEGORIES AND PERCENT FOR PAST TWO YEARS?

staff

C. WHAT IS THE HISTORY OF YOUR RESERVE MONEY - PAST 5 YEARS?
\$200,000.00

2. CONFERENCES

Society

A. DO YOU NEED ANOTHER CONFERENCE? NO

Society

B. DO YOU COOPERATE WITHIN/WITHOUT IEEE ORGANIZATIONS? YES

Society

C. WHAT IS YOUR MEETING/CONFERENCE ATTENDANCE - PAST 3 YEARS. 1,700

Society

D. WHO ARE THE ATTENDEES OF YOUR MEETING/CONFERENCE FOR PAST THREE YEARS:

**% OF SOCIETY MEMBERS

**% OF IEEE MEMBERS

**% IN INDUSTRY/ACADEMIA/GOVERNMENT/OTHER

NO DATA AVAILABLE

**% OF PERSONS PRESENTING PAPERS

Society

E. DOES THE SOCIETY HAVE CONFERENCES OR WORKSHOPS OUTSIDE THE USA?
IF SO, WHERE, WHEN FOR PAST FIVE YEARS?

**% ANY PLANS FOR CONFERENCE/WORKSHOP OUTSIDE THE USA?

YES: IJCNN '91 SINGAPORE

3. PUBLICATIONS

- staff YEARS? A. ARE YOUR PUBLICATION PAGES/FREQUENCY INCREASING FOR PAST THREE YES.
*% ANY PLANS TO INCREASE PAGES/FREQUENCY? 50% INCREASE IN 1991.
- Society B. ARE YOUR PUBLICATIONS THEORETICAL OR MORE PRACTICAL?
STRICKEN - BAD QUESTION
- Society C. DO YOU HAVE COMPETING PUBLICATIONS? YES.
- Society D. IF SO, LIST. Neural Computation
Neural Networks
Neural Network Computing
International Journal of Neural Systems
- staff E. DO YOU HAVE A MAGAZINE? NO
- Society F. IF NOT, ANY PLANS FOR ONE? NO
- staff G. HOW DO YOU SEND YOUR PUBLICATIONS TO NON US MEMBERS?

4. MEMBERSHIP

- staff A. WHAT IS THE HISTORY OF YOUR MEMBERSHIP TOTAL FOR PAST FIVE YEARS?
Councils have no individual members.
We have subscribers.
- Society B. WHO ARE YOUR POTENTIAL MEMBERS?
Members of member societies, Psychol. Neural,
Physiolog.
- Society C. WHAT IS YOUR MARKET SHARE OF POTENTIAL MEMBERS TODAY?
Bad Question
- Society D. HOW DO YOU MEASURE MEMBERSHIP SATISFACTION? We Don't.
- Society E. WHAT ARE THE OTHER INTERESTS OF YOUR MEMBERS? Don't Know.
- Society F. TO WHAT OTHER SOCIETIES/ORGANIZATIONS DO THEY BELONG? INNS
- Society G. HOW DO THESE OTHER ORGANIZATIONS COMPARE TO YOUR SOCIETY?
INNS has more in science, we have more engineers.
- Society H. RELATIONSHIP BY PERCENTAGE OF ACADEMIA, INDUSTRY, GOVERNMENT,
OTHER FOR PRESENT MEMBERSHIP. No data.
- staff I. WHAT REGIONS BY PERCENTAGE MAKE UP YOUR PRESENT MEMBERSHIP?
No data.
- Society J. ANY PLANS FOR A CAMPAIGN TO INCREASE MEMBERSHIP OVERALL AND/OR
NON US MEMBERSHIP IN PARTICULAR? NO

5. GENERAL

- Society A. DO YOU COOPERATE WITHIN/WITHOUT IEEE ORGANIZATIONS? YES
- Society B. IS YOUR FIELD OF INTEREST STILL RELEVANT? YES
- staff C. WHEN WAS IT LAST UPDATED? 1989
- Society D. HAVE YOU CONSIDERED A MERGER WITH ANOTHER SOCIETY? IF SO, WHEN
AND TO WHAT LEVEL DID THE MERGER PROCEED? NO!

- Society E. WHAT ARE YOUR TARGETS OF OPPORTUNITY, I.E., NEW FIELDS?
--
- Society F. WHAT ARE YOUR PROBLEMS? Conference Management.
- Society G. WHAT ARE YOUR GOALS? Smaller in-depth forums on neural networks.
More student involvement.
- Society H. WHAT ARE YOUR PLANS? Tutorial service.

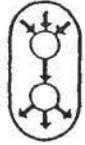
6. ADCOM

- Society A. HOW DO YOU ELECT ADCOM MEMBERS? Appointed by member.
- Society B. WHAT IS THEIR AVERAGE AGE? Bad question.
- Society C. WHAT IS THEIR AVERAGE EXPERIENCE? No data.
- Society D. PROPORTION OF ACADEMIC, INDUSTRY, GOVERNMENT, OTHER?
20 6 1
- Society E. HOW OFTEN DO YOU ROTATE ADCOM MEMBERS?
- Society F. ARE THE TERMS STAGGERED? Yes
- Society G. WHAT ARE THE LENGTHS OF THE TERMS? Two years.
- Society H. ARE SEAT(S) DESIGNATED FOR JUNIOR PERSONS? No
- Society I. ARE SEAT(S) DESIGNATED FOR NON US MEMBERS? No

7. COMMENTS

PLEASE ADD INFORMATION, COMMENTS, ADDITIONAL QUESTIONS/ANSWERS
THAT WOULD HELP THE SURVEY.

THANKS!



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

June 6, 1991

Dudley Kay
IEEE Press Managing Editor
P. O. Box 1331
Piscataway, New Jersey 08855-1331

Dear Dudley:

The AdCom of the IEEE Neural Networks Council has authorized the Council President to commit sponsorship of books published by IEEE Press. At the recommendation of S. V. Kartalopoulos, the Council's liaison to the IEEE Press, I hereby do so for FUZZY MODELS FOR PATTERN RECOGNITION outlined in the proposal from Dr. Bezdek. I also enthusiastically support this recommendation personally.

The first FUZZ-IEEE meeting is in March, 1992. It would be ideal if the book were ready by then.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks II".

Robert J. Marks II, President
Neural Networks Council

cc: J. C. Bezdek
S. V. Kartalopoulos, NNC Liaison to IEEE Press
Toshio Fukuda, NNC Publications Chair
Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary

✓ *Slee*



5/29/91

S.V. Kartalopoulos

Publication Committee, IEEE Neural Networks Council
AT & T Bell Labs, Room 1 E-220A
1 Whippany Road
Whippany, NJ 07981

Dear Dr. Kartolopoulos :

Enclosed please find our proposal for an IEEE Milestones Papers book entitled "Fuzzy Models for Pattern Recognition, co-authored by myself and S.K. Pal. This was prepared in response to the IEEE NNC request for same which was directed to me at their meeting of Jan. 25, 1991. Professor Pal and I have worked hard to make the proposal realistic, attractive, and technically correct, and I hope the IEEE NNC agrees. You are aware of the IEEE's first International Conference on Fuzzy Systems (brochure attached). If our proposal is approved, it will be our plan to move ahead at a rate that might enable us to have the book available at the conference in San Diego, where it would enjoy very timely entry into the technical publications market. With this in mind, we look forward to hearing from you at your earliest convenience.

Most Cordially,

Jim Bezdek 5/29/91

Jim Bezdek
Sankar Pal

cc : Bob Marks, President, IEEE NNC
Toshio Fukuda, NNC
Dudley Kay, IEEE Press

Date Received:

SELECTED REPRINT BOOK PROPOSAL

I. YOUR BOOK- BASIC DATA

A. Working Title: **Fuzzy Models for Pattern Recognition**

Subtitle: None

B. Volume Editors, their addresses, phone and FAX numbers

James C. Bezdek
Division of Computer Science
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C. Proposed Sponsor:

Contact Person(s) if already sent (Name, address, phone)

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Publication Committee, IEEE Neural Networks Council
AT & T Bell Labs, Room 1 E-220A
1 Whippany Road
Whippany, NJ 07981
(201)386-4289

If no proposed sponsor has been contacted or listed, explain why:

D. Is this book part of an approved or planned Series? If so, indicate Series name and the Series Editor.

No

E. Expected month/year of manuscript completion:	10/31/91
F. Estimated number of pages from reprint articles:	325
Estimated number of printed book pages of original material:	50
Total number of printed pages:	375

II. YOUR BOOK'S SCOPE AND INTENT

- ✦ A. Describe your book's content and scope in a straightforward paragraph or two, as if you were talking informally to a colleague. If the title is highly technical or includes acronyms, define your terms up front. Imagine this description going into a general catalog.

This volume collects seminal papers relating to the theory and applications of pattern recognition based on fuzzy sets. Specifically, the volume begins with Zadeh's original 1965 article on fuzzy sets, and proceeds chronologically through the evolution of fuzzy algorithms for feature analysis, clustering and classifier design, and image processing and vision. Each of these major categories is divided into papers important to the theory or an actual application to a pattern recognition system design problem. Each section contains an introduction to the topic, comments on the importance of the papers selected, and a bibliography for further reading.

- B. Now describe your rationale for writing it. That is, what is the purpose of the book? What value will it hold for others?

Applications of fuzzy pattern recognition have matured in the last five years, especially as they interact with and support control systems. At the same time, the theory on which these applications are based has evolved into a cohesive subject, as reflected by the papers we intend to collect for this volume. Pedagogically then, it is timely to introduce a unified presentation of fuzzy models for pattern recognition. From a more utilitarian viewpoint, scientists and engineers (especially in the USA) are very anxious to understand this approach, because of the commercial success in recent years of Japanese products based on fuzzy technology.

- C. If appropriate, comment on background developments (trends, recent breakthroughs, research findings, etc.) that will even better put your book into context of a needed resource.

Refer to "The Future Looks Fuzzy," Newsweek, May 28, 1990, 46-47 (attached). This article highlights the Japanese approach to utilizing fuzzy models. The Japanese now have about 3000 patents based on fuzzy algorithms, while there may be as few as 50 in the USA. Consequently, US companies are trying to "catch up" (again!), and this volume addresses one of the major technology areas of interest in a unified and cohesive way. The IEEE has itself recognized this need, by recently deciding to sponsor FUZZ-IEEE '92, the 1st International Conference on Fuzzy Systems, to be held during March 8-12, 1992 in San Diego. If this book can be made available at FUZZ-IEEE '92, it should be very popular.

III. AUDIENCE - IDENTIFYING YOUR MARKET

Your identification of a sponsoring Society helps us to identify a broad general audience for your book. However, identification of specific target groups will help both the Press and the Society to evaluate your book.

A. Describe your intended audience in general terms.

Scientists/Engineers in academia, industry and government that do research and development of fielded systems that process sensor data for classification, prediction and control.

B. What is the expected degree of academic preparation or work experience that you assume on the part of the reader/buyer?

An undergraduate degree in any physical or computational science (physics, chemistry, biology, mathematics, computer science, etc.), or engineering (civil, mechanical, electrical, computer, etc.).

C. Name specific industries, businesses, and professions which will comprise the target audience for your book.

Business: Defense (automatic target recognition, guidance, and control), Medicine (medical diagnosis, image analysis, disease classification), Vehicular (automobile, airplane, train, boat controllers), Police and detective (crime and criminal detection from speech, handwriting, fingerprint, photograph), Natural resource study and estimation (agriculture, forestry, geology, environment), Industry (CAD, CAM, product testing and assembly, inspection and quality control), Domestic systems (appliances), and Computers (fuzzy hardware and software). Professions: physical and computational sciences and engineering.

D. Within those industries, cite the job titles, interest areas, or job functions that will help us call out IEEE and non-IEEE mailing lists.

Interest areas: Information processing, robotics, image processing, machine vision, neurocomputing, document retrieval, expert systems, artificial intelligence, natural language processing, machine learning, decision theory, control systems, computers, pattern recognition.

E. If the book has potential use as a classroom text or for continuing education, describe the course titles and level here.

This volume could be used as a secondary (supplementary) text for courses in fuzzy sets, classifier design, cluster analysis, feature analysis, image processing/analysis and computational models for uncertain reasoning. The level would be at senior undergraduate/first year graduate school.

F. If we have missed any potential audiences for your book, include them here (excluding libraries and vague audiences, e.g., "foreign sales.")

The largest non-domestic audience would be the Japanese, who are users of the technology, but were not, in the main, developers of it.

IV. REACHING YOUR AUDIENCE

Identifying your target audience is half the battle. We now need to evaluate whether we can reach these target groups cost-efficiently.

- A. IEEE and each Society maintains a Technical Interest Profile of members. Those TIP lists comprise our most effective mailing lists. The bigger ones align with Technical Committees. Can you provide the specific interest areas we should mail to?

IEEE TIP #'s: 0120, 0400 (All), 0650, 0680, 0740, 1000 (All), 1200 (All), 1300(All), 1600 (All), 1810, 1815, 1820, 2300 (All), 2660, 2800 (All), 3120, 3441, 3442, 3450, 3455, 3456, 3710

- B. Are there non-IEEE associations and societies which would have an interest in your book? In order of priority, list them here.

International Fuzzy Systems Association (IFSA)
Japanese Society for Fuzzy Theories (SOFT)
North American Fuzzy Information Processing Society (NAFIPS)
Pattern Recognition Society (PRS)
International Association for Pattern Recognition (IAPR)
International Federation of Classification Societies (IFCS)
Association for Computing Machinery (ACM)
American Association of Artificial Intelligence (AAAI)
International Society for Optical Engineering (SPIE)

- C. Conferences represent an excellent opportunity for book sales and promotion. List the IEEE and non-IEEE conferences which come to mind as the best places to display your book. Asterisk those which you regularly attend.

IEEE Conferences: Fuzzy Systems*, PRIP, SMC, CDC*, IJCNN*,

Others: IFSA*, NAFIPS*, IFCS*, AAAI, ICPR

- D. Professional journals, trade magazines, and industry newsletters are another good source of potential buyers. Many rent their list of subscribers. Identify those periodicals which serve your intended audience.

IEEE Trans: PAMI, SMC, NN, IT, Remote Sensing
Int'l J. of Approximate Reasoning
Int'l J. Pattern Recognition and Artificial Intelligence
Int'l J. General Systems
Int'l J. Intelligent Systems
Int'l J. Man Machine Studies
Int'l J. System Science

Fuzzy Sets and Systems
SOFT Journal
J. of Classification
Information Sciences
Pattern Recognition
Pattern Recognition Letters
Information and Computation

- E. Occasionally a private business or society will want to purchase a large quantity of books to give to their customers or to use for staff development. If your book has any potential here, give us your thoughts.

On this one we draw a blank!

- F. This is the Miscellaneous section. Any specialized mailing lists, non-traditional markets, or final thoughts on reaching your market?

No

V. COMPETING AND SIMILAR BOOKS

- A. We know from experience that authors are reluctant to cite competing and similar books. You should be aware that the presence of existing books helps us to define the market and frame sales projections. The absence of books can be a negative in our market appraisal. Do try, then, to cite books that are like yours, starting with the most similar. Provide author, title, and publisher so that we can do our research thoroughly.

There are three monographs specifically devoted to fuzzy pattern recognition:

1. Bezdek, J.C. *Pattern Recognition with Fuzzy Objective Function Algorithms*, Plenum, N.Y. 1981.
2. Kandel, A. *Fuzzy Techniques in Pattern Recognition*, Wiley, N.Y., 1982.
3. Pal, S.K. and Dutta Majumder, D.K., *Fuzzy Mathematical Approach to Pattern Recognition*, Wiley, N.Y., 1986.

There are now perhaps 15 other text books on fuzzy models that contain chapters on or related to pattern recognition. Of these, the most notable are the books of Dubois and Prade (AP), Klir and Folger (PH), Kandel (AW) and Pao (AW). There are at least 40 edited volumes of collections of papers on fuzzy models, but none are devoted entirely to pattern recognition.

- B. Now try to think of IEEE Press Books, Standards, Conference Proceedings, or other IEEE publications which might overlap the audience for your book.

There are no IEEE publications that approach this topic. Many conference proceedings over the years have had a session devoted to fuzzy pattern recognition. Generally, however, we feel that the thematic topic of the proposed volume is rather independent from available resources.

VI. FINAL THOUGHTS

Tell us anything else about your book, yourself, or your audience which would help us to understand and evaluate your proposal in the most favorable light. Or, if you prefer, pose questions of your own for the Press, the Society, or the reviewers.

Fuzzy sets are hot - now is the time to strike!

Fuzzy Models for Pattern Recognition:
J.C. Bezdek and S.K. Pal (B/P)
Tentative Contents

1. Fuzzy Models and Pattern Recognition: Foundations

- A. Fuzzy Sets and Membership Functions (B/P)
- B. Models of Uncertainty: Probability and Fuzziness (B/P)
- C. L. A.Zadeh, Fuzzy Sets, *Inform. Control*, 8, 338-353, 1965 16 pages
- D. Pattern Recognition: Models and Approaches (B/P)
- E. Comments and Bibliography (B/P)

2. Cluster Analysis

- A. Background, Significance and Key Points (B/P)
- B. E. H. Ruspini, A New Approach to Clustering, *Inform. Control*, 15, 22-32, 1969. 11 pages
- C. I. Gitman and M.D. Levine, An Algorithm for Detecting Unimodal Fuzzy Sets and its Application as a Clustering Techniques, *IEEE Trans. Comp.*, C-19, 583-593, 1970 11 pages
- D. S. Tamura, S. Higuchi and K. Tanaka, Pattern Classification Based on Fuzzy Relations, *IEEE Trans. Syst., Man & Cyberns.*, SMC-1, 61-66, 1971. 6 pages
- E. J. Dunn, A Graph Theoretic Analysis of Pattern Classification via Tamura's Fuzzy Relation, *IEEE Trans. Syst., Man & Cyberns.*, SMC-4, 310-313, 1974. 4 pages
- F. A. Kandel and L. Yelowitz, Fuzzy Chains, *IEEE Trans. Syst., Man & Cyberns.*, SMC-4, 472-475, 1974 . 4 pages
- G. J.C. Bezdek and J.D. Harris, Fuzzy Relations and Partitions: An Axiomatic Basis for Clustering, *Fuzzy Sets and Systems*, 1, 111-127, 1978. 17 pages
- H. M. Roubens, Pattern Classification Problems and Fuzzy Sets, *Fuzzy Sets and Systems*, 1, 239-253, 1978. 15 pages
- I. E. Backer and A.K. Jain, A Clustering Performance Measure Based on Fuzzy Set Decomposition, *IEEE Trans. Patt. Anal. & Mach. Intell.*, PAM1-3, 66-75, 1981. 10 pages
- J. M.P. Windham, Geometric Fuzzy Clustering Algorithms, *Fuzzy Sets and Systems*, 3, 271-280, 1983. 10 pages

- K. M.J. Sabin, Convergence and Consistency of Fuzzy C-means/ISODATA Algorithms, *IEEE Trans. Patt. Anal. & Mach. Intell.*, PAMI-9, 661-668, 1987. 8 pages
- L. Comments and Bibliography (B/P)

3. Classifier Design and Feature Analysis

- A. Background, Significance and Key Points (B/P)
- B. R.E. Bellman, R. Kalaba and L.A. Zadeh, Abstraction and Pattern Classification, *J. Math. Anal. Appl.* 13, 1-7, 1966. 7 pages
- C. J.C. Bezdek and P.F. Castelaz, Prototype Classification and Feature Selection with Fuzzy Sets, *IEEE Trans. Syst., Man & Cyberns.*, SMC-7, 87-92, 1977. 6 pages
- D. R.L.P. Chang and T. Pavlidis, Fuzzy Decision Tree Algorithms, *IEEE Trans. Syst., Man & Cyberns.*, SMC-7, 28-35, 1977. 8 pages
- E. S.K. Pal and D. Dutta Majumder, Fuzzy Sets and Decision Making Approaches in Vowel and Speaker Recognition, *IEEE Trans. Syst., Man and Cyberns.*, SMC-7, 625-629, 1977. 5 pages
- F. R. De Mori and P. Laface, Use of Fuzzy Algorithms for Phonetic and Phonemic Labeling of Continuous Speech, *IEEE Trans. Patt. Anal. & Mach. Intell.*, PAMI-2, 136-148, 1980. 13 pages
- G. J. C. Bezdek, A Convergence Theorem for the Fuzzy ISODATA Clustering Algorithms, *IEEE Trans. Patt. Anal. & Mach. Intell.*, PAMI-2(1), 1-8. 1980. 9 pages
- H. J. Keller, M. Gray and J. Givens, A Fuzzy k-nearest Neighbor Algorithm, *IEEE Trans. Syst., Man & Cyberns.*, SMC-15, 580-585, 1985. 6 pages
- I. A. Pathak and S.K. Pal, Fuzzy Grammars in Syntactic Recognition of Skeletal Maturity from X-rays, *IEEE Trans. Syst., Man & Cyberns.*, SMC-16, 657-667, 1986. 11 pages
- J. B.B. Devi and V.V.S. Sarma, A Fuzzy Approximation Scheme for Sequential Learning in Pattern Recognition, *IEEE Trans. Syst., Man & Cyberns.*, SMC-16, 668-679, 1986. 12 pages
- K. Comments and Bibliography (B/P)

4. Neural Networks and Learning

- A. Background, Significance and Key Points (B/P)
- B. W.G. Wee and K.S. Fu, A Formulation of Fuzzy Automata and its Application as a Model of Learning Systems, *IEEE Trans. Syst. Sci. & Cyberns.*, SSC-5, 215-223, 1969. 9 pages
- C. S.C. Lee and E.T. Lee, Fuzzy Neural Networks, *Mathematical Biosciences*, 23, 151-177, 1975. 27 pages

- D. J. M. Keller and D.J. Hunt, Incorporating Fuzzy Membership Functions into the Perceptron Algorithms, *IEEE Trans. Patt. Anal. & Mach. Intell.*, PAMI1-7, 693-699, 1985. 7 pages
- E. T. Huntsberger and P. Ajjimarangsee, Parallel Self-Organizing Feature Maps for Unsupervised Pattern Recognition, *Int. J. General Sys.*, 16, 357-372, 1990. 16 pages
- F. S. Mitra and S.K. Pal, Self-Organizing Neural Network as a Fuzzy Classifier, *IEEE Trans. Syst., Man & Cyberns.*, (to appear). (approx) 10 pages
- G. Comments and Bibliography (B/P)

5. Image Processing and Machine Vision

- A. Background, Significance and Key Points (B/P)
- B. A. Rosenfeld, Fuzzy Digital Topology, *Inform. Control*, 40, 76-87, 1979. 12 pages
- C. S.K. Pal and R.A. King, Image Enhancement Using Smoothing with Fuzzy Set, *IEEE Trans. Syst. Man & Cyberns.*, SMC-11(7), 494-501, 1981. 8 pages
- D. J.C. Bezdek and I.M. Anderson, An Application of the c-Varieties Clustering Algorithms to Polygonal Curve Fitting, *IEEE Trans. SMC*, 15(5), 637-641, 1985. 5 pages
- E. T.L. Huntsberger, C. Rangarajan and S.N. Jayaramamurthy, Representation of Uncertainty in Computer Vision Using Fuzzy Sets, *IEEE Trans. Comp.*, C-35, 145-156, 1986. 12 pages
- F. S.K. Pal and A. Rosenfeld, Image Enhancement and Thresholding by Optimization of Fuzzy Compactness, *Pattern Recognition Letters*, 7(2), 77-86, 1988. 10 pages
- G. Y.W. Lim and S.U. Lee, On the Color Image Segmentation Algorithm based on the Thresholding and Fuzzy c-Means Techniques, *Pattern Recognition*, 23(9), 935-952, 1990. 18 pages
- H. Comments and Bibliography (B/P)

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Finding good critical reviewers of a book proposal or a manuscript in developmental stages can be an arduous and frustrating task. If you can suggest good qualified reviewers, we would be happy to consider them and combine them with our own "blind" reviewers. We do not, however, want reviewers who are from the same institution as you, close personal friends, or anybody who might be less than candid in their evaluation of your materials.

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PhD: Applied Mathematics	Cornell University	: 08/73

Professional Experience

1973-74	SUC/Oneonta	Asst. Professor, Mathematics
1974-76	Marquette University	Asst. Professor, Mathematics
1976-82	Utah State University	Assoc. Professor, Mathematics
1982-83	Boeing Aerospace	Visiting Research Scientist
1983-87	Univ. of South Carolina	Professor and Chairman, Computer Science
1987-88	Pacific Lutheran Univ.	Visiting Professor, Computer Science
1987-89	Boeing Electronics	Director, Information Processing Laboratory
1989-now	Univ. of West Florida	Nystul Professor of Computer Science

Professional Consulting

1977-79	Rainbird Corp.	Numerical Analysis/Trickle Irrigation
1978-80	Univ. of South Carolina	Pattern Recognition/Shape Analysis
1980-81	VON-SOL Corp.	Numerical and Statistical Analyses
1981-82	Wren-Oneal Co.	Networking Software
1983-84	Mid Atlantic Co.	Information Retrieval Systems
1985-86	Univ. of New Mexico	Structural Damage Assessment
1985-86	Boeing Aerospace	Syntactic Pattern Recognition
1985-86	Becton-Dickinson	Flow Cytometry/Immunology
1986-87	Pacific Lutheran Univ.	External Program Review: Computer Science
1986-87	Adv. Systems Devel.	Linguistic Models/Decision Theory
1989-90	NeoPath Inc.	Pattern Recognition for Cytology
1990-91	Becton-Dickinson DIS	Pattern Recognition for Immunology

Selected Recent Publications

Core Zone Scatterplots: A New Approach to Feature Extraction for Visual Displays, CVGIP, 41, 1988, 186-209 (with E.W. Chiou).

Parameter Estimation for Finite Mixture Distributions, Int'l. Jo. Comp. & Math. with Applications, 15(10), 1988, 819-828 (with J. Davenport and R. Hathaway).

Tower Packing Evaluation with Linguistic Variables, Int'l. Jo. Comp. & Math. with Applications, 15(10), 1988, 863-870 (with J.Y. Wu, V. Van Brunt and W.R. Zhang).

Recent Convergence Results for the Fuzzy c-Means Clustering Algorithms, Jo. Classification, 5(2), 1988, 237-247 (with R. Hathaway).

Heuristics for Intermediate Level Road Finding Algorithms, CVGIP, 44, 1988, 175-190 (with S. Vasudevan, R. Cannon and W. Cameron).

Optimality Tests for Fixed Points of the Fuzzy c-Means Algorithm, Pattern Recognition, 21(6), 1988, 651-663 (with T. Kim and R. Hathaway).

Relational Duals of the c-Means Clustering Algorithms, Pattern Recognition, 22(2), 1989, 205-212 (with R. Hathaway and J. Davenport). Pool2: A Generic System for Cognitive Map Development and Decision Analysis, IEEE Trans. SMC, 19(1), 1989, 31-39 (with W.R. Zhang and S.S. Chen).

A Linguistic Transitive Closure Method for Completion and Consistency of Uncertain Knowledge, in Methodologies for Intelligent Systems, 3, ed. Z.B. Ras and L. Saitta, North Holland, New York, 1988, 1-10 (with G. Biswas).

An Intelligent System for Autonomous Navigation of Airborne Vehicles, in Proc. SPIE: Sensor Fusion: Spatial Reasoning and Scene Interpretation, V1003, 1988, 451-469 (with W. Cameron and H. Fain).

An Adaptive Layered Bayes Network, in Proc. SPIE Applications of AI (6), ed. M. Trivedi, V1092(2), 1989, 796-803 (with J.S.J. Lee).

Books and Proceedings (A = Author, E = Editor)

- (A) *Pattern Recognition with Fuzzy Objective Function Algorithms*, Plenum, N.Y., 1981.
- (E) *The Analysis of Fuzzy Information 1: Mathematics and Logic*, CRC Press, Boca Raton, FL, 1987.
- (E) *The Analysis of Fuzzy Information 11: Decision Systems and Artificial Intelligence*, Ibid, 1987.
- (E) *The Analysis of Fuzzy Information 111: Applications in Engineering and Science*, Ibid, 1987.
- (E) *The Coming of Age of Fuzzy Logic. Proceedings of the 3rd IFSA Congress*, Seattle, August, 1989.
- (E) *Advances in Artificial Intelligence: Applications and Theory*, World Scientific Series in Computer Science, v. 27, World Scientific Publ. Co., Singapore, 1990.

Conferences: General Chair

NAFIPS-1 Workshop	Logan	1982
Sino-American Symposium on Fuzzy Sets	Peking	1984
FIP-84/ IFSA Founding Congress	Kauai, Hawaii	1984
2nd Int'l. Conf. on EAI/IEA	Tullahoma	1989
Third IFSA World Congress	Seattle	1989
4th Int'l Conf. on EAI/IEA	Kauai	1991
1st IEEE Conf. on Fuzzy Systems (FUZZ-IEEE'92)	San Diego	1992

Journal Editorships

Founding Editor (1986- now): International Journal of Approximate Reasoning (Elsevier)

Editorial Board: IEEE Transactions Systems, Man and Cybernetics
International J. of Man-Machine Studies
International J. of Applied Intelligence
Fuzzy Sets and Systems

Recent Invited Talks

NASA Wksp. Neural Networks	(Plenary Address)	Houston	05/88
Wash. Junior Sci. and Humanities Symp.	(Keynote Address)	Seattle	03/89
Neural Networks for Defense Workshop		Washington	06/89
3-rd IFSA World Congress	(Keynote Address)	Seattle	08/89
3-rd Florida AI Research Symposium	(Banquet Address)	Cocoa Beach	04/90
Classification Society	(Keynote Address)	Logan	06/90
Int'l Symp. on Uncertain Reasoning	(Plenary Address)	Bechyne	06/90
12th Int'l Congress on Electron Microscopy		Seattle	08/90
SPIE Applications of AI (IX)	(Keynote Address)	Orlando	04/91

Other Recent Activities

CSAC (Computer Science Accreditation Commission) Visitor, 1989-1994. Member, Panel on Expert Systems for Industrial Applications, 2nd EIA/IAE, Tullahoma, 1989. Member, Panel on AI in Simulator Design, SE Simulation Conference, Pensacola, 1989. Member, Advisory Panel, Ford Fndn Fellowships, National Research Council, 1989-1990. Senior Member, IEEE, 1990. ACM Lecturer, 1990-1991.

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B.Tech. : Radiophysics & Electronics	University of Calcutta	: 08/72
M.Tech. : Radiophysics & Electronics	University of Calcutta	: 12/74
Ph.D. : Radiophysics & Electronics	University of Calcutta	: 05/79
Ph.D./ DIC : Electrical Engineering	Imperial College, London	: 03/82

Professional Experience

1976-81	Indian Statistical Institute, Calcutta	Computer Engineer
1979-81	Imperial College, London	Commonwealth Scholar
1981(July)	Leicester Polytechnic	Visiting Research Fellow
1981-83	Imperial College, London	MRC Postdoctoral Fellow
1982-87	Indian Statistical Institute, Calcutta	Associate Professor
1983-86	Calcutta University	Guest Teacher, Comp. Sci.
1986-87	University of California, Berkeley and University of Maryland, College Park	Fulbright Visiting Fellow
1987-date	Indian Statistical Institute, Calcutta	Professor
1990-date	NASA Johnson Space Center, Houston	NRC Guest Investigator

Selected Recent Publications

Image Enhancement and Thresholding by Optimization of Fuzzy Compactness, *Pattern Recognition Letters*, 7(2), 77-86, 1988 (with A. Rosenfeld).

Edge Detection Based on Human Visual Response, *Int. J. Syst. Sci.*, 19(12), 2523-2542, 1988 (with M.K. Kundu)

Approximate Coding of Digital Contours, *IEEE Trans. Syst., Man and Cyberns.*, 18(6), 1056-1066, 1988 (with S.N. Biswas).

Fuzzy Skeletonization of Image, *Pattern Recognition Letters*, 10(1), 17-23, 1989.

Object-Background Segmentation Using New Definitions of Entropy, *IEE Proceedings-E*, 136(4), 284-295, 1989 (with N.R. Pal).

Generalised Guard Zone Algorithm (GGA) for Learning: Automatic Selection of Threshold, *Pattern Recognition*, 23(3/4), 325-335, 1990 (with A. Pal(Pathak)).

Fuzzy Thresholding : Mathematical Framework, Bound Functions and Weighted Moving Average Technique, *Pattern Recognition Letters*, 11(3), 197-206, 1990 (with C.A. Murthy).

Pattern Recognition Techniques in Analyzing the Effect of Thiourea on Brain Neurosecretory Cells, *Pattern Recognition Letters*, 11(6), 443-452, 1990 (with A. Bhattacharyya).

Fuzzy Dynamic Clustering Algorithm, *Pattern Recognition Letters*, 11(8), 525-535, 1990 (with S. Mitra).

Effect of Wrong Samples on the Convergence of Learning Processes, *Information Sciences*, 53(3), 191-201, 1991 (with A. Pal (Pathak)).

Neural Network, Gibbs Distribution and Object Extraction, *Proc. Int. Symp. on Intell. Robotics (ISIR)*, Bangalore, India, January 1991, 95-106 (with A. Ghosh and N.R. Pal).

Fuzzy Tools For the Management of Uncertainty in Pattern Recognition, Image Analysis, Vision and Expert System, *Int. J. Syst. Sci.*, 22(3), 511-549, 1991.

Higher Order Fuzzy Entropy and Hybrid Entropy of a Set, *Information Sciences*, to appear (with N.R. Pal).

Linguistic Recognition System Based on Approximate Reasoning, *Information Sciences*, to appear (with D.P. Mandal).

Image Model, Poisson Distribution and Object Extraction, *Int. J. Patt. Recog. and Artificial Intell.*, accepted for publication (with N.R. Pal).

Bounds for Membership Function: Correlation Based Approach, *Information Sciences*, accepted for publication (with C.A. Murthy).

Fuzzy Geometry in Image Analysis, *Fuzzy Sets and systems*, accepted for publication (with A. Ghosh).

Spectral Fuzzy Sets and Soft Thresholding, *Information Sciences*, accepted for publication (with A. Dasgupta).

Book

Pal, S.K. and Dutta Majumder, D.K., *Fuzzy Mathematical Approach to Pattern Recognition*, Wiley, N.Y., 1986.

Recent Invited Talks

INDO-US Workshop on Syst. & Sig. Process., Bangalore	01/88
Defence Research & Development Organisation Ministry of Defence, New Delhi (a series of lectures)	05/88
Summer School, Indian Institute of Technology, E & ECE Kharagpur (a series of lectures)	07/88
Osaka Electrocommunication University, Management Engineering Nayagawa, Osaka (a series of lectures)	08/88
Special Seminar for Japanese Scientists & Engineers who want to apply Fuzzy Set Theory, Iizuka, Fukuoka (a series of lectures)	08/88
Rourkela Engineering College, Electrical Engg. (a series of lectures)	02/89
National Remote Sensing Agency, Hyderabad (a series of lectures)	07/89

Institute of Armament Technology, Pune (<i>a series of lectures</i>)	08/89
INDO-US Workshop on Spectrum Analysis in One and Two Dimensions, New Delhi	11/89
Second International Joint Technology Workshop on Neural Network and Fuzzy Logic, NASA, Houston	04/90
Special Seminar for Japanese Industrialists & Engineers who want to apply Fuzzy Set Theory, Iizuka, Fukuoka (<i>a series of lectures</i>)	P07/90
Texas Tech. University, Electrical Engg., Lubbock	10/90

Other Recent Activities

Recipient of the *1990 Shanti Swarup Bhatnagar Prize in Engineering Sciences*. (This is the most coveted award for a scientist in India.)

Senior member, IEEE

Fellow, IETE (India)

Member of the management committee, IAPRAI (Indian Association for Pattern Recognition and Artificial Intelligence)

Treasurer, ISFUMIP (Indian Society for Fuzzy Mathematics and Information Processing)

Life member, Indian Statistical Institute

Permanent member of the INDO-US Forum for Cooperative Research and Technology Transfer (IFCRTT).

Reviewer of Mathematical Reviews (American Mathematical Society)

Scientific consultation on:

Machine Recognition Problem of Paleontological Patterns, Geological Survey of India, Calcutta.

Classification Problem of Mangoes from their leaves or plants, Horticulture
Dept., Calcutta University.

Image Processing and Shape Analysis Problem of Brain Neurosecretory Cells of Insects, Dept. of
Zoology, Vidyasagar College, Calcutta University.

B U S I N E S S

The Future Looks 'Fuzzy'

Yet again, Japan is cashing in on a U.S. invention

Imagine a futuristic washing machine. It's still coated with white enamel, but it just got a whole lot smarter. You dump the laundry basket into the tub, push one button and leave.

The machine then uses an optical sensor to look at your clothes, decides how dirty they are, determines how much detergent, water and cycles are required, then goes about its business. The built-in intelligence of the washing machine is comparable to a human's good sense—at least as far as laundry is concerned. Sound like science fiction? Not really. You can already buy such a washer from two different companies in Japan.

How do they work? The key is fuzzy logic, a new way to program computers and appliances to mimic the imprecise way humans make decisions. It's the latest in a long line of technologies—from robotics and VCRs to solar cells—that Americans invented, only to see savvy Japanese manufacturers take the lead in finding commercial applications. For Japanese firms, fuzzy logic may prove even a greater coup than the VCR: within a decade, everything from cameras and elevators to toasters and automobiles will probably incorporate fuzzy-logic computer chips. "In 10 years," says Sheridan Tatsuno, principal of NeoConcepts in Fremont, Calif., and an expert on Japanese technology, "fuzzy logic will be a 2-to-3-billion-dollar business."

By then we may be buying fuzzy VCRs that come with only one button—to turn them on and off—and are programmed solely by voice commands. Fuzzy cameras will automatically and subtly compensate for tricky lighting situations. Fuzzy microwave ovens will watch over meals with the same sensitivity as a human cook. Fuzzy shower systems will prevent sudden changes in water pressure from chilling—or scalding—the bather. Fuzzy air conditioners and heaters will balance temperatures according to the number of people in a room and the power needs of a house. "Within a few years," says Tatsuno, "there

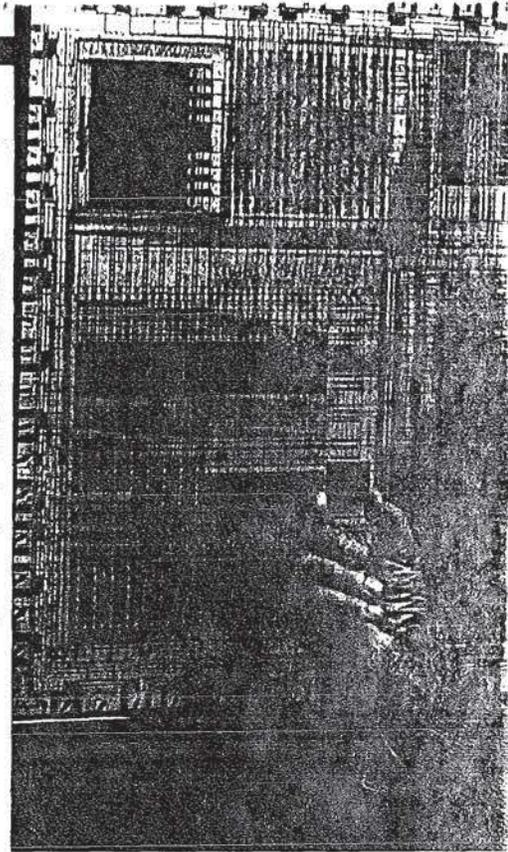
will be several hundred applications."

Fuzzy logic was indisputably born in the United States, in the mid-1960s, at the modest northside Berkeley, Calif., home of Lotfi Zadeh, now 69 and still teaching at the University of California. The unkind might call him the original computer nerd: he buys only used cars, wears a pocket protector and carries a mathematical calculator in a plastic pouch on his belt. But Zadeh was also the first to create a way for comput-

er programs to recognize that reality has shades of gray. The simple yes-no response of traditional programming doesn't deal with, say, the case of laundry that isn't all equally dirty. The idea was obvious, but Zadeh was ignored by U.S. business.

Not so in Japan. Japanese manufacturers have not only found pure computer applications, like a new Sony computer

THE ASIAN CHALLENGE

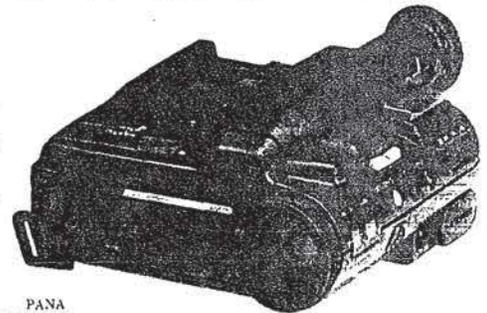


A prophet with little recognition in his own land:

that uses fuzzy logic to recognize handwriting on its screen. They've discovered that "fuzzy" is a highly effective way to control appliances. The next product on Japanese drawing boards is the fuzzy VCR—a product that should go over big in the United States, given the surveys that indicate many Americans can't figure out how to

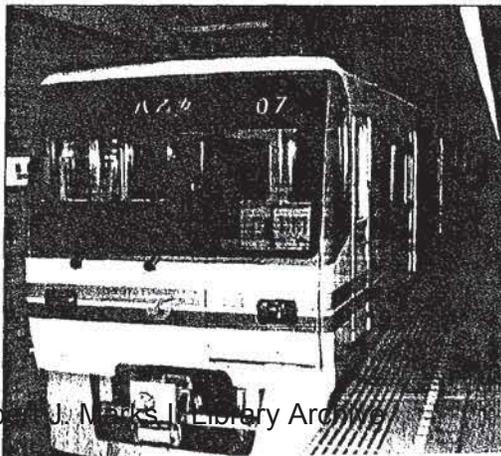
How It Works

The Japanese have discovered dozens of commercial applications for fuzzy logic, which allows computers to operate with more of the flexibility of the human mind. Some examples of what the technology allows different products to do:



PANA

CAMERAS: It helps photographic equipment react automatically and subtly to changes in light conditions.



SUBWAYS: Fuzzy can help rearrange departure schedules to compensate for delays and bring trains to quiet stops.



JAMES D. WILSON—NEWSWEEK

Berkeley professor and programming pioneer Zadeh

program their VCRs. A fuzzy VCR might, with voice synthesis, say, "I think you're programming me incorrectly." The potential for other products is enormous: Japanese researchers have already built a fuzzy car capable of parking itself.

Yet Zadeh won't get rich. When his first papers appeared, there was little prece-

dent for protecting intellectual property. "It didn't even occur to me to patent it," he says. "Now there are over 2,000 fuzzy logic patents in Japan alone." Dozens of products have already come to market: the first fuzzy washing machine, made by Matsushita (Panasonic in the United States), sold out its initial production run within weeks. Zadeh, still virtually unknown in America, has his name on office-building plaques in Japan.

What's fuzzy logic? A comparison: American computer scientists today bicker over the relative merits of two forms of artificial intelligence (AI): classic AI and "neural networks." So far the winner in the United States is classic AI, which depends on fixed rules programmed into the computer, plus data that's fed into it. This means the computer would use its rules, along with your credit record, to tell a bank whether to give you a new credit card. The problem: in the real world, rules keep changing, but the

ones in the computer don't.

That's why neural network computers, which far more accurately mimic the human mind, have become a hot topic in computer science. Neural-network computers can learn from experience. For example: a neural-network computer in California designed to approve home loans receives feed-

back on which loans went sour and uses that information to alter its approval system. The problem: thus far, neural networks need the care and feeding of a human 2-year-old. Little dependable software exists for them, and so corporations are hesitant to invest. Once again, corporate America's emphasis on showing short-term gains and avoiding long-term risk may mean that the lead in neural-network computing could soon go to Japan.

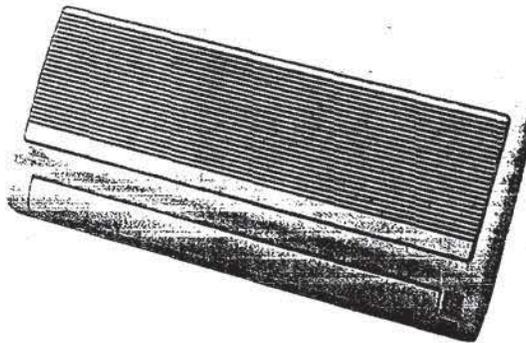
In fuzzy logic, the Russian-born Zadeh essentially combined the two schools of artificial intelligence. The fuzzy computer is preprogrammed, but with highly flexible rules. While fuzzy computers can't reprogram themselves, as can neural networks, they can adapt to changing conditions. If trains on the Sendai line in Japan (one of the first fuzzy applications) are late, the train-controlling computer can reschedule as necessary. The same fuzzy computer also controls the rate at which trains stop at stations: straphangers don't need to grip hard because station stops are as gentle as a kitten. In Japan, fuzzy computers also control elevators, deciding where to stop depending on the number and destination of passengers. There is even a fuzzy-logic investment fund, using the technique to analyze the Tokyo stock market.

Few U.S. products: American business people and government officials are finally taking note of fuzzy. The top-of-the-line Kenmore refrigerator uses fuzzy logic to defrost itself. Last month NASA's Johnson Space Center hosted a conference on fuzzy logic and neural networks. (NASA might use fuzzy logic in future space-vehicle control systems.) At least one U.S. start-up, Togai InfraLogic, is already building fuzzy chips. Sony is rumored to have approached a small Silicon Valley firm to make fuzzy chips for a U.S. version of its handwriting-recognition computer. IBM, Hewlett-Packard and Rockwell International are all studying fuzzy logic, although no products are in sight. Analyst Tatsuno believes American firms might find a niche making fuzzy chips for Japanese appliances and predicts the technology could spawn as many as 100 new U.S. companies this decade.

At home in Berkeley, Zadeh is philosophical about being a prophet with little recognition in his own land. "In the U.S., there's a tradition for what is precise, for Cartesian logic. In Japan there is more appreciation of the imprecise, of ambiguity. I've always been confident that people will come around to my way of thinking." Soon, he says, fuzzy logic will be in every appliance. "We'll see appliances rated not on horsepower but on IQ." Then keeping up with the neighbors may take on a new edge. Hey: my microwave is smarter than yours.

MICHAEL ROGERS with YURIKO HOSHIAI
in Tokyo

COMPUTERS: A new Sony 'PalmTop' machine uses fuzzy logic to help it recognize and respond to a user's handwriting when it appears on the screen.



AIR CONDITIONERS: It allows electric coolers and heaters to change temperatures based on the number of people who are in the room, or the power requirements of a house.



Technology

Time for Some Fuzzy Thinking

An oddball approach to computer science pays off in Japan

BY PHILIP ELMER-DEWITT

In the pages of *Books in Print*, listed among works like *Fuzzy Bear* and *Fuzzy Wuzzy Puppy*, are some strange-sounding titles: *Fuzzy Systems*, *Fuzzy Set Theory* and *Fuzzy Reasoning & Its Applications*. The bedtime reading of scientists gone soft in the head? No, these academic tomes are the collected output of 25 years of mostly American research in fuzzy logic, a branch of mathematics designed to help computers simulate the various kinds of vagueness and uncertainty found in everyday life. Despite a distinguished corps of devoted followers, however, fuzzy logic has been largely relegated to the back shelves of computer science—at least in the U.S.

But not, it turns out, in Japan. As they have so often in the past, the Japanese have seized on an American invention and found practical uses for it. Suddenly the term fuzzy and products based on principles of fuzzy logic seem to be everywhere in Japan: in television documentaries, in corporate magazine ads and in novel electronic gadgets ranging from computer-controlled air conditioners to golf-swing analyzers. The concept of fuzziness has struck a cultural chord in a society whose religions and philosophies are attuned to ambiguity and contradiction. Says Noboru Wakami, a senior researcher at Matsushita: "It's like soy sauce and sushi—a perfect match."

What is fuzzy logic? The original concept, developed in the mid-'60s by Lofti Zadeh, a Russian-born professor of computer science at the University of California, Berkeley, is that things in the real world do not fall into the neat, crisp categories defined by traditional set theory, like the set of even numbers or the set of left-handed baseball players. In standard Aristotelian logic, as in computer science, membership in a class or set is not a matter of degree. Either a number is even, or it is not. But this on-or-off, black-or-white, 0-or-1 approach falls apart when applied to many everyday classifications, like the set of beautiful women, the set of tall men or the set of very cold days.

To deal with such cases, Zadeh proposed that membership in a set be measured not as a 0 or a 1, but as a value between 0 and 1. Thus, in the set of tall men, George Bush (6 ft. 2 in.) might have a

membership value of 0.7, while Kareem Abdul-Jabbar (7 ft. 2 in.) might have a 0.99. Zadeh and his students went on to elaborate a full fuzzy mathematics, devising precise rules for combining vague expressions like "somewhat fast," "very hot" and "usually wrong."

This mathematics turns out to be surprisingly useful for controlling robots, machine tools and various electronic systems. A conventional air conditioner, for example, recognizes only two basic states: too hot or too cold. When geared for thermostat control, the cooling system either



ILLUSTRATION FOR TIME BY GARY BASEMAN

operates at full blast or shuts off completely. A fuzzy air conditioner, by contrast, would recognize that some room temperatures are closer to the human comfort zone than others. Its cooling system would begin to slow down gradually as the room temperature approached the desired setting. Result: a more comfortable room and a smaller electric bill.

Fuzzy logic began to find applications in industry in the early '70s, when it was teamed with another form of advanced computer science called the expert system. A product of research into artificial intelligence, expert systems solve complex problems somewhat like human experts do—by applying rules of thumb. (Example: when the oven gets very hot, turn the gas down a bit.) In 1980 F.L. Smidth & Co. of Copenhagen began marketing the first commercial fuzzy expert system: a computer program that controlled the fuel-intake rate and gas flow of a rotating kiln used to make cement.

Despite such successes, fuzzy logic was not well received in the U.S. Scientists pointed out that uncertainty and vagueness could be represented perfectly well by more traditional means, like statistics or probability theory. Some of the criticism bordered on the vituperative, and the tenets of fuzzy logic were dismissed with terms ranging from "comical" to "content-free."

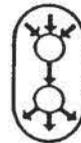
The Japanese, however, showed no such resistance, perhaps because their culture is not so deeply rooted in scientific rationalism. Says Bart Kosko, a Zadeh protégé and a professor of electrical engineering at the University of Southern California: "Fuzziness begins where Western logic ends." In the early '80s several Japanese firms plunged enthusiastically into fuzzy research. By 1985 Hitachi had installed the technology's most celebrated showpiece: a subway system in Sendai, about 200 miles north of Tokyo, that is operated by a fuzzy computer. Not only does it give an astonishingly smooth ride (passengers do not need to hang on to straps), but it is also 10% more energy efficient than systems driven by human conductors.

Japanese researchers are pursuing more than 100 new applications for fuzzy logic. Nissan has patented fuzzy auto transmission and antiskid braking systems. Yamaichi Securities has introduced a fuzzy stock-market investment program for signaling shifts in market sentiment. Canon is working on a fuzzy auto-focus camera. Matsushita has delivered a fuzzy automobile-traffic controller, and is about to unveil a fuzzy shower system that adjusts to changes in water temperature to prevent morning scaldings. And in the strongest endorsement of the technology to date, the Ministry of International Trade and Industry opened the Laboratory for International Fuzzy Engineering Research in Yokohama and called for funding of some \$34 million over the next six years.

The U.S. is not totally out of the fuzzy picture yet. A small firm in Irvine, Calif., Togai InfraLogic, has already achieved several of the goals MITI set for itself, including a fuzzy computer chip that can perform 28,600 fuzzy-logical inferences per sec. (FLIPS). And NASA is experimenting with fuzzy controllers that could help astronauts pilot the shuttle in earth orbit. The results so far, say NASA officials, are encouraging, and there is growing interest at such aerospace firms as Rockwell and Boeing. "The only barrier remaining" to wider use of fuzzy logic, says Kosko, "is the philosophical resistance of the West." —Reported by Norihiko Shirouzu/Tokyo



NEURAL NETWORKS COUNCIL



Michael W. Roth
Editor-in-Chief,
IEEE Transactions on Neural Networks

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e-mail: mwr@apcomm.jhuapl.edu

June 3, 1991

Professor Ronald J. Williams
College of Computer Science
Room 1601CN
Northeastern University
360 Huntington Avenue
Boston, Massachusetts 02115

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof. R. J. Williams dated June 3, 1991.

Dear Professor Williams:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

A handwritten signature in cursive script that reads "Michael W. Roth".

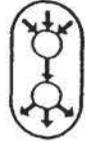
Dr. Michael W. Roth

cc:

Robert J. Marks, II



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Editor-in-Chief,
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May 31, 1991

Dr. Dan Hammerstrom
Adaptive Solutions, Inc.
Suite 340
1400 Compton Drive
Beaverton, Oregon 97007

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Dr. D. Hammerstrom dated May 31, 1991.

Dear Dan,

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

A handwritten signature in cursive script that reads "Michael W. Roth".

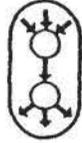
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Robert J. Marks, II



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May 30, 1991

Dr. Gerald Tesauro
IBM Thomas J. Watson Research Center
P. O. Box 704
Yorktown Heights, New York 10598

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Dr. G. Tesauro dated May 30, 1991.

Dear Dr. Tesauro:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

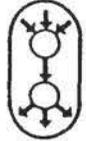
Very truly yours,

A handwritten signature in cursive script that reads "Michael W. Roth".

Dr. Michael W. Roth

cc:

Robert J. Marks, II



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May 30, 1991

Professor Eric Mjolsness
Department of Computer Science
Yale University
P.O. Box 2158 Yale Station
New Haven, Connecticut 06520-2158

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof. E. Mjolsness dated May 30, 1991.

Dear Professor Mjolsness:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

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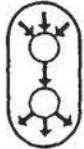
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May 29, 1991

Professor G. Dreyfus
Ecole Supérieure de Physique et de Chimie Industrielles
Laboratoire d'Electronique
10 Rue Vauquelin
75005 Paris
FRANCE

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof. G.
Dreyfus dated May 29, 1991.

Dear Professor Dreyfus:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

A handwritten signature in cursive script that reads "Michael W. Roth".

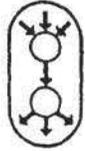
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May 29, 1991

Professor Etienne Barnard
Department of Electronics and Computer Engineering
University of Pretoria
0002 Pretoria
South Africa

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof.
E. Barnard dated May 29, 1991.

Dear Professor Barnard:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

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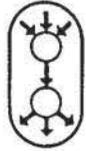
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May 29, 1991

Professor David E. Van Den Bout
Room 208 Daniels Hall
ECE Department
North Carolina State University
Raleigh, North Carolina 27695-7911

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof. D. E.
Van Den Bout dated May 29, 1991.

Dear Professor Van Den Bout:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

A handwritten signature in cursive script that reads "Michael W. Roth".

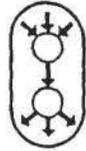
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May 29, 1991

Dr. Jay Farrell
Draper Labs
Mailstop 4C
555 Technology Square
Cambridge, Massachusetts 02139

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Dr. J. Farrell dated May 29, 1991.

Dear Dr. Farrell:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly yours,

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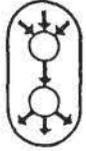
Dr. Michael W. Roth

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May 23, 1991

Professor Frank Fallside
Department of Engineering
University of Cambridge
Trumpington Street
Cambridge CB2 1TQ
United Kingdom

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Prof. F. Fallside dated May 23, 1991.

Dear Professor Fallside:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly your,

A handwritten signature in cursive script that reads "Michael W. Roth".

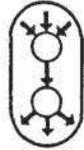
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Robert J. Marks, II



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May 28, 1991

Raymond L. Watrous
Siemens Research and Technology Laboratories
755 College Road East
Princeton, New Jersey 08542

Subject: Appointment as a Technical Associate Editor

Reference: 1. Telecon between Dr. M. W. Roth and Dr. R. L.
Watrous dated May 28, 1991.

Dear Dr. Watrous:

Thank you for our recent telephone conversation (Reference 1). This letter is confirmation that I have asked you, and you have agreed, to serve as a Technical Associate Editor for the IEEE Transactions on Neural Networks. Your official appointment will be for a calendar year starting immediately.

I wish to thank you for accepting and I look forward to working with you in the future.

Very truly your,

A handwritten signature in cursive script, reading "Michael W. Roth".

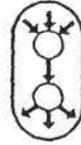
Dr. Michael W. Roth

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Robert J. Marks, II



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

June 3, 1991

University of Washington
Seattle, WA 98195 USA
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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Prof. Mohamed El-Sharkawi, Chair
NNC Ad Hoc Committee on Video Tutorials
Dept. of EE - FT-10
University of Washington
Seattle, Washington 98195

Dear Mohamed:

The attached questionnaire/letter from Lucian Kasprzak, Video Tutorial Chair, Continuing Education Committee, is forwarded for your response.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bob' with a small 'w' underneath.

Robert J. Marks, President
Neural Networks Council

Attachment



IEEE

EDUCATIONAL ACTIVITIES BOARD

Lucian A. Kasprzak
IBM, Program Manager
Professional Relations
500 Columbus Drive
Thornwood, NY 10594

May 13, 1991

Robert J. Marks, II
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

Dear Prof. Marks:

I am writing to update you on some of the activities of the Continuing Education Committee (CEC) of the IEEE Educational Activities Board and to ask for your help.

In the attached catalog you will find a list of the Video Tutorial programs as well as other self-study courses offered by the IEEE Educational Activities Department and the CEC to the IEEE membership. I include them at this time to update you on some of the materials we have found of interest to members. In our efforts to broaden the scope of material available we are turning to the individual societies for input. As a Society President, you are in a key position to have special insight into your members' continuing education needs. I ask that you take a few minutes and answer the following questions in an effort to guide us toward new topic development.

1. Are there any distinguished lecturers you would like to see included in a Distinguished Lecture Video Series? Please list.

2. Are there any particular topics you would like to see added to the Video Tutorial Series? Please enumerate.

3. Would any of the conferences you sponsor like help in videotaping and/or marketing the video from these conferences? Please list.

Any input you can provide is appreciated. It will assist us in our development of Continuing Education products. Thank you in advance for your help.

Sincerely,

A handwritten signature in cursive script that reads "Lucian Kasprzak".

Lucian Kasprzak
Video Tutorial Chair, Cont. Ed. Comm.

PROPOSAL for PUBLICATION

of the

IEEE TRANSACTIONS ON FUZZY SYSTEMS

by the

IEEE NEURAL NETWORKS COMMITTEE

which is composed of representatives of the IEEE Societies listed in Appendix A

Prepared by the Ad Hoc Committee for the Transactions

James C. Bezdek, Chair
Didier Dubois
Toshio Fukuda
Kaoru Hirota
Michio Sugeno
Lotfi Zadeh

June, 1991

INTRODUCTION AND SUMMARY

This document presents a proposal for an *IEEE Transactions on Fuzzy Systems* sponsored by the *IEEE Neural Networks Committee (NNC)*, which is composed of representatives from the *IEEE Societies* listed in Appendix A. The transactions proposed will be a quarterly publication starting in January, 1993 with 320 pages (including covers). The cost to *IEEE* members in the member societies will be \$10 for the first year, and the cost to *IEEE* members outside of the member societies will be \$20. The proposed four-year budget shows a small surplus (\$4k) in 1993 with more modest excesses in the subsequent three years. The proposed budget lists 2000 member subscribers in 1993 plus 1000 in the all-transactions package rising to 4500 member subscribers in 1996. If current interest in Fuzzy Systems continues, these figures are conservative.

NARRATIVE

Over the last five years fuzzy models in control systems and pattern recognition have supplanted more conventional technologies in many scientific applications and engineering systems. A recent Newsweek article [Appendix D] indicates that the Japanese now hold more than 2000 patents on fuzzy devices used in applications as diverse as: washing machines, TV Camcorders, air conditioners, palm top computers, vacuum cleaners, ship navigators, subway train controllers and automobile transmissions.

Concomitant interest in fuzzy systems in academic, industrial and governmental arenas is manifested by the rapid growth of local, national and international conferences. A short list: NAFIPS (North American Fuzzy Information Processing Society), annual 1982-1991; IFSA (International Fuzzy Systems Association), biannual 1985-1991; NASA, *Fuzzy Logic and Neural Networks*, biannual, 1988-1992; SPIE, *Fuzzy Logic*, annual beginning 1993; MCC, *Industrial Conference on Fuzzy Systems*, 1992; and finally, the *IEEE International Conference on Fuzzy Systems*, annual, beginning in 1992 [Appendix E]. This last conference was commissioned and sponsored by the *IEEE NNC*, the sponsor of this proposal.

The need for a centralized *IEEE* publication in Fuzzy Systems is parallel to the need for a centralized inter-Society *IEEE Neural Network Committee (NNC)*. There exists a broad spectrum of interest throughout (and from outside) *IEEE* nodes on this topic. There have been a number of fuzzy systems papers and special issues in the publications of *IEEE NNC Societies*. These scattered publication patterns, however, are quite difficult for the ever-growing number of fuzzy systems researchers to follow. Establishment of the subject Transactions would provide a valuable service to fuzzy systems researchers by making available a high quality apolitical archival publication that is characteristic of the *IEEE*. Furthermore, areas of analysis and application include not only those of the member *NNC* societies, but many other topics such as medical computing, applications to economics, psychology, finance, decision theory and analysis in the so-called soft sciences. Current *IEEE* publications are not adequate to cover the ever expanding topical areas in this new field. There is little doubt that interest of those not currently belonging to the *IEEE* would increase *IEEE* membership through the proposed transactions, especially in areas such as the social sciences, which utilize fuzzy models very enthusiastically.

From a technical standpoint, it is especially appropriate that the *IEEE NNC* propose the establishment of a *Trans. on Fuzzy Systems*, because it has become increasingly clear over the last three years or so that fuzzy models and neural networks are technically synergistic (e.g., the NASA conferences on *Fuzzy Logic and Neural Networks*; e.g., a special issue of *IEEE Trans. NN* on "Fuzzy Systems and Neurocomputing," commissioned to appear in Fall, 1992; e.g., the *IEEE NNC* proposal to have an *IEEE Press* milestone series book entitled "Fuzzy Models in Pattern Recognition").

Fuzzy sets were introduced in 1965 by Lotfi Zadeh (Univ. of California, Berkeley) as a means for representing non-statistical uncertainty. Imprecision, vagueness and ambiguity in natural language often leads to fuzzy (non-random) statements, e.g. "Apply your brakes *pretty soon*; if the temperature is *high* or speed is *great*, reduce the engine output *a little*." The theory of fuzzy sets has evolved as a representational language that provides a means for manipulating, combining, interpreting and using fuzzy instructions and/or data, with the ultimate purposes of e.g., classification, prediction and control.

As noted in Appendix D, successful applications of fuzzy models have gained great visibility through commercial applications in Japan. MITI in Japan started LIFE (Laboratory of Industrial Fuzzy Engineering) in 1988 with an annual budget of (about) \$35,000,000/yr (US dollars). Japan now has a very large (about 1800 members) and active professional society (SOFT, the Japanese Society for Fuzzy Theories) which publishes a technical journal in Japanese. In the US, a few companies such as Togai Infralogic and Rockwell, and agencies such as the NSF and NASA have provided limited but continued support for fuzzy systems development. Recently, however, US industries begun to commission serious and dedicated efforts to engineering and scientific applications of fuzzy systems (e.g., the ICFS sponsored by MCC in 1992; the IEEE video teleconference on Fuzzy Systems, 1991, etc.).

The major journals devoted to fuzzy systems are the *SOFT Journal* (Japan, about 1800 readers), *Fuzzy Sets and Systems* (North Holland, about 800 readers) and the *Int. J. Approximate Reasoning* (Elsevier, about 300 readers). It is appropriate that the IEEE create a flagship publication in the area of fuzzy systems, to capture and collect the best research on this important new technology in one centralized location. Although the current proposal calls for a transactions having 320 pages/year, it is anticipated that the Transactions will be able to justify expansion to 596 pages by the fourth year.

SCOPE OF THE PROPOSED TRANSACTIONS

The *IEEE Transactions on Fuzzy Systems* will publish high quality technical papers and correspondence on the science and technology of fuzzy systems which disclose significant technical knowledge, exploratory developments and applications of fuzzy systems from biology to software to hardware. Emphasis will be given to engineering systems and scientific applications. Specific acceptable categories include, but are not necessarily limited to, the following aspects of fuzzy systems:

1. Fuzzy estimation, prediction and control
2. Approximate reasoning
3. Intelligent systems design
4. Machine learning
5. Image processing and machine vision
6. Pattern recognition
7. Fuzzy neurocomputing
8. Electronic and photonic implementation
9. Medical computing applications
10. Robotics

SPONSORSHIP

The Transactions will to be sponsored by the *IEEE Neural Networks Committee* which is composed of the member Societies listed in Appendix A. The NNC has a large surplus in reserve in the unlikely event that the proposed transactions needs financial support during its first years of operation. Indeed, the NNC will finance a one time purchase of approximately 8000 extra copies of the first issue of the Transactions on Fuzzy Systems for all subscribers to the IEEE Trans. on Neural Networks.

ADMINISTRATIVE MANAGEMENT OF THE JOURNAL

Management of the Journal shall be vested in the NNC. The Editor-in-Chief shall be selected by the council, and may be removed by a two-thirds majority vote of the council. The term of office for the Editor-in-Chief shall be four years, renewable by the council. The Editor-in-Chief shall nominate Associate Editors to be approved by the council. A council member may be an Associate Editor, but may not in any way participate in discussions or vote concerning their own nomination. One council member shall be selected to serve as Secretary-Treasurer. All actions of the council concerning the transactions, except removal of the Editor-in-Chief, shall be by majority vote of the council. OUT

EDITORIAL POLICY

Editorial selection and review shall be consistent with policies and practices of the IEEE. There shall be no commercial advertising in the Journal. However, each of the IEEE Societies that are NNC members shall be entitled to place announcements featuring its publications or events to the extent of one full page in each issue, free of charge, or in amounts as may be mutually determined by the Council. Papers for the initial issues can be obtained from individual solicitation and/or from papers submitted to the 1992 IEEE International Conference on Fuzzy Systems. Final copies of papers for FUZZ-IEEE'92 are due by September, 1991 and will be in review until 1/1/92. This will allow ample lead time for the preparation of the first Transactions issue, targeted to appear in January, 1993.

FINANCES

Editorial staff

The budget for each calendar year shall be developed by the ad hoc committee on the Transactions of Fuzzy Systems for approval by the IEEE Neural Networks Council, for eventual submission to the IEEE for final approval. The budget shall include all customary IEEE Expense and Income items. Appendix B shows the input data used in the financial analysis. Attachment C shows the financial projection for the years 1993 to 1996. All financial data are in based on proration of 1991 dollars.

Appendix A : MEMBERSHIP STATISTICS

Membership Statistics of constituent societies of IEEE Neural Network Committee as of 1/191: C

<u>Society</u>	<u>Number of Members</u>
CAS	13,837
COMMUNICATIONS	27,752
CONTROL SYSTEMS	10,000
ENG. & MED. BIO.	7,235
IND. APPLICATIONS	?????
IND. ELECTRONICS	5,351
INF. THEORY	5,153
LASERS ELECT OP. SOC.	6,397
OCEAN ENGINEERING	?????
ROBOTIC AND AUTOMATION	6,395
SIGNAL PROCESSING	14,651
SYSTEMS MAN & CYBER	4,480
Total	101,251

Appendix B: FINANCIAL INPUT DATA (1991 Dollars)

The expense numbers here are for a quarterly publication with 320 pages (including covers). This data was supplied by Lewis Moore, Business Manager for IEEE Publications, (908) 562-3959.

ESTIMATE FOR NEW TRANSACTIONS : SUMMARY DATA

Total # pages/year	320
Total # of issues/year	4
Pages incl. covers-1 issue	80
Print Order	3000

FIXED COSTS (PER YEAR)

Editorial:	320 pp @ \$ 42.00	13,440.00
Comp & Layout:	320 pp @ \$ 60.00	19,200.00
Camera:	320 pp @ \$ 3.00	960.00
Press:		8,000.00
Covers and Binding:		3,000.00

VARIABLE COSTS (PER YEAR)

Press:	1,000.00
Mailing (labor & labels):	2,000.00
Postage (75% Domestic, 25% Foreign):	6,000.00
Paper (text & cover):	4,000.00
Pub Admin Costs:	1,500.00
TOTAL PER YEAR, 1991 dollars	51,110.00

Appendix C. Budget Estimates for the Proposed Transactions on Fuzzy Systems.
 1993 Base Costs = 1.2 * 1991 Base Costs. Subsequent base costs \cong 1.2 * Previous Year, to
 account for inflation, page and copy increases.

Year	1993	1994	1995	1996
Number of Pages:	320	400	496	592
Number of Copies:				
Full Package	1000	1000	1000	1000
Member Subs.	2000	2500	3000	3500
Total Printrun	3000	3500	4000	4500
Costs (K\$)				
Prod. and Distr.	56	68	80	97
Indexing	2	2	3	3
Direct Editorial Expenses	8	10	12	15
Total Costs (K\$)	66	80	95	115
Income (K\$)				
Member fees	\$10	\$12	\$14	\$16
Income, member fees	20	30	42	56
Non-Member Fee	\$100	\$100	\$125	\$125
Income, Non-members (50)	5	5	7.5	7.5
Full Package Subscribers	45	52.5	57.5	60.0
Total Income (K\$)	70	87.5	107	123.5
Net (K\$)	+4.0	+7.5	+12.0	+ 8.5

One-time cost to IEEE NNC for free first issue to all subscribers of IEEE Trans.
 Neural Networks..... **\$5,000.00**

B U S I N E S S

The Future Looks 'Fuzzy'

Yet again, Japan is cashing in on a U.S. invention

Imagine a futuristic washing machine. It's still coated with white enamel, but it just got a whole lot smarter. You dump the laundry basket into the tub, push one button and leave.

The machine then uses an optical sensor to look at your clothes, decides how dirty they are, determines how much detergent, water and cycles are required, then goes about its business. The built-in intelligence of the washing machine is comparable to a human's good sense—at least as far as laundry is concerned. Sound like science fiction? Not really. You can already buy such a washer from two different companies in Japan.

How do they work? The key is fuzzy logic, a new way to program computers and appliances to mimic the imprecise way humans make decisions. It's the latest in a long line of technologies—from robotics and VCRs to solar cells—that Americans invented, only to see savvy Japanese manufacturers take the lead in finding commercial applications. For Japanese firms, fuzzy logic may prove even a greater coup than the VCR: within a decade, everything from cameras and elevators to toasters and automobiles will probably incorporate fuzzy-logic computer chips. "In 10 years," says Sheridan Tatsuno, principal of NeoConcepts in Fremont, Calif., and an expert on Japanese technology, "fuzzy logic will be a 2-to-3-billion-dollar business."

By then we may be buying fuzzy VCRs that come with only one button—to turn them on and off—and are programmed solely by voice commands. Fuzzy cameras will automatically and subtly compensate for tricky lighting situations. Fuzzy microwave ovens will watch over meals with the same sensitivity as a human cook. Fuzzy shower systems will prevent sudden changes in water pressure from chilling—or scalding—the bather. Fuzzy air conditioners and heaters will balance temperatures according to the number of people in a room and the power needs of a house. "Within a few years," says Tatsuno, "there

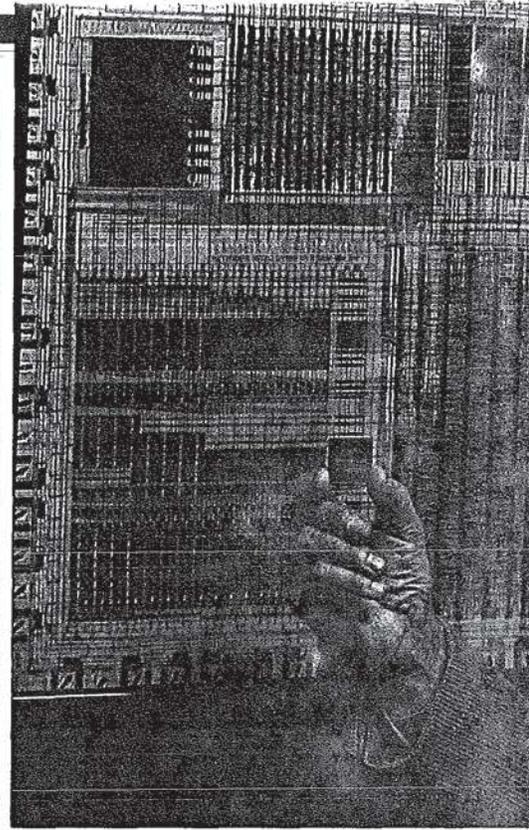
will be several hundred applications."

Fuzzy logic was indisputably born in the United States, in the mid-1960s, at the modest northside Berkeley, Calif., home of Lotfi Zadeh, now 69 and still teaching at the University of California. The unkind might call him the original computer nerd: he buys only used cars, wears a pocket protector and carries a mathematical calculator in a plastic pouch on his belt. But Zadeh was also the first to create a way for computer

programs to recognize that reality has shades of gray. The simple yes-no response of traditional programming doesn't deal with, say, the case of laundry that isn't all equally dirty. The idea was obvious, but Zadeh was ignored by U.S. business.

Not so in Japan. Japanese manufacturers have not only found pure computer applications, like a new Sony computer

THE ASIAN CHALLENGE

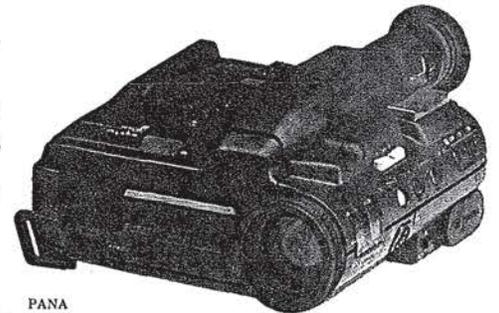


A prophet with little recognition in his own land:

that uses fuzzy logic to recognize handwriting on its screen. They've discovered that "fuzzy" is a highly effective way to control appliances. The next product on Japanese drawing boards is the fuzzy VCR—a product that should go over big in the United States, given the surveys that indicate many Americans can't figure out how to

How It Works

The Japanese have discovered dozens of commercial applications for fuzzy logic, which allows computers to operate with more of the flexibility of the human mind. Some examples of what the technology allows different products to do:

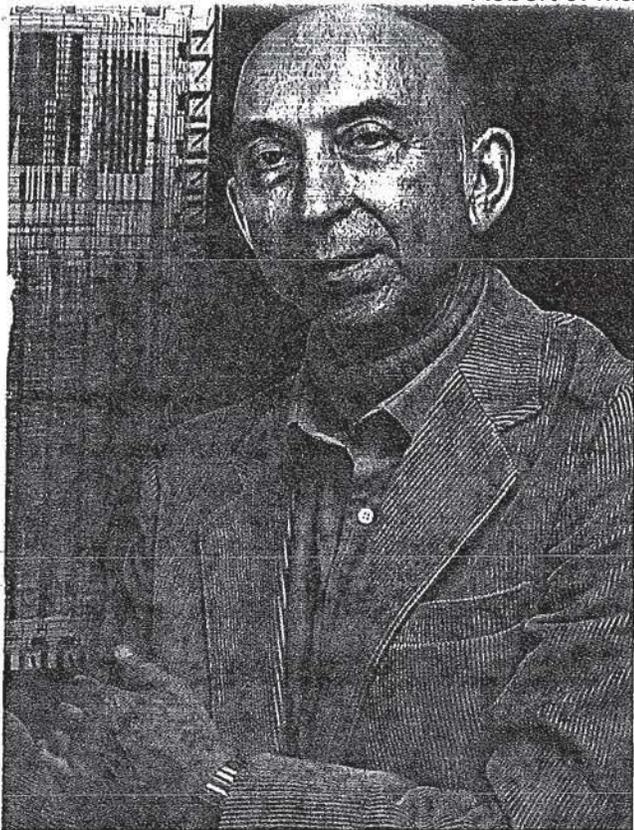


PANA

CAMERAS: It helps photographic equipment react automatically and subtly to changes in light conditions.



SUBWAYS: Fuzzy can help rearrange departure schedules to compensate for delays and bring trains to quiet stops.



JAMES D. WILSON—NEWSWEEK

Berkeley professor and programming pioneer Zadeh

program their VCRs. A fuzzy VCR might, with voice synthesis, say, "I think you're programming me incorrectly." The potential for other products is enormous: Japanese researchers have already built a fuzzy car capable of parking itself.

Yet Zadeh won't get rich. When his first papers appeared, there was little prece-

dent for protecting intellectual property. "It didn't even occur to me to patent it," he says. "Now there are over 2,000 fuzzy logic patents in Japan alone." Dozens of products have already come to market: the first fuzzy washing machine, made by Matsushita (Panasonic in the United States), sold out its initial production run within weeks. Zadeh, still virtually unknown in America, has his name on office-building plaques in Japan.

What's fuzzy logic? A comparison: American computer scientists today bicker over the relative merits of two forms of artificial intelligence (AI): classic AI and "neural networks." So far the winner in the United States is classic AI, which depends on fixed rules programmed into the computer, plus data that's fed into it. This means the computer would use its rules, along with your credit record, to tell a bank whether to give you a new credit card. The problem: in the real world, rules keep changing, but the

ones in the computer don't.

That's why neural network computers, which far more accurately mimic the human mind, have become a hot topic in computer science. Neural-network computers can learn from experience. For example: a neural-network computer in California designed to approve home loans receives feed-

back on which loans went sour and uses that information to alter its approval system. The problem: thus far, neural networks need the care and feeding of a human 2-year-old. Little dependable software exists for them, and so corporations are hesitant to invest. Once again, corporate America's emphasis on showing short-term gains and avoiding long-term risk may mean that the lead in neural-network computing could soon go to Japan.

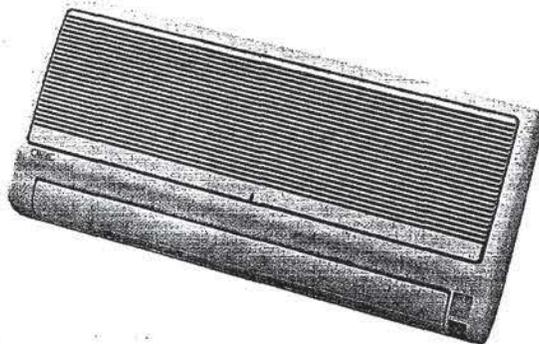
In fuzzy logic, the Russian-born Zadeh essentially combined the two schools of artificial intelligence. The fuzzy computer is preprogrammed, but with highly flexible rules. While fuzzy computers can't reprogram themselves, as can neural networks, they can adapt to changing conditions. If trains on the Sendai line in Japan (one of the first fuzzy applications) are late, the train-controlling computer can reschedule as necessary. The same fuzzy computer also controls the rate at which trains stop at stations: straphangers don't need to grip hard because station stops are as gentle as a kitten. In Japan, fuzzy computers also control elevators, deciding where to stop depending on the number and destination of passengers. There is even a fuzzy-logic investment fund, using the technique to analyze the Tokyo stock market.

Few U.S. products: American business people and government officials are finally taking note of fuzzy. The top-of-the-line Kenmore refrigerator uses fuzzy logic to defrost itself. Last month NASA's Johnson Space Center hosted a conference on fuzzy logic and neural networks. (NASA might use fuzzy logic in future space-vehicle control systems.) At least one U.S. start-up, Togai InfraLogic, is already building fuzzy chips. Sony is rumored to have approached a small Silicon Valley firm to make fuzzy chips for a U.S. version of its handwriting-recognition computer. IBM, Hewlett-Packard and Rockwell International are all studying fuzzy logic, although no products are in sight. Analyst Tatsuno believes American firms might find a niche making fuzzy chips for Japanese appliances and predicts the technology could spawn as many as 100 new U.S. companies this decade.

At home in Berkeley, Zadeh is philosophical about being a prophet with little recognition in his own land. "In the U.S., there's a tradition for what is precise, for Cartesian logic. In Japan there is more appreciation of the imprecise, of ambiguity. I've always been confident that people will come around to my way of thinking." Soon, he says, fuzzy logic will be in every appliance. "We'll see appliances rated not on horsepower but on IQ." Then keeping up with the neighbors may take on a new edge. Hey: my microwave is smarter than yours.

MICHAEL ROGERS with YURIKO HOSHIAI
in Tokyo

COMPUTERS: A new Sony 'PalmTop' machine uses fuzzy logic to help it recognize and respond to a user's handwriting when it appears on the screen.



AIR CONDITIONERS: It allows electric coolers and heaters to change temperatures based on the number of people who are in the room, or the power requirements of a house.



UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

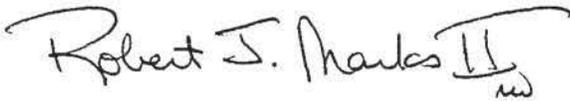
May 31, 1991

Richard C. Dorf, Editor-in-Chief
The Electrical Engineering Handbook
Dept. of Electrical and Cptr. Engr.
University of California
Davis, California 95616

Dear Dr. Dorf:

I would be delighted to contribute to your project. I look forward to receiving further information.

Sincerely,

A handwritten signature in black ink that reads "Robert J. Marks II". The signature is written in a cursive style with a large, sweeping initial "R".

Robert J. Marks II
Professor

The Electrical Engineering Handbook

A CRC Press, Inc. Publication

Editor-in-Chief
Richard C. Dorf

Department of Electrical and
Computer Engineering
University of California
Davis, CA 95616

(916) 752-7395
(916) 752-8428 Fax

May 14, 1991

Professor Robert Marks
Univ. of Washington
Dept. of Electrical Engineering
Seattle, WA 98195

Dear Professor Marks:

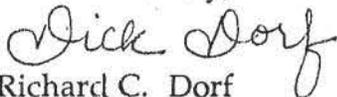
We are putting together a very high-quality reference handbook concerning all aspects of electrical engineering. Our objective is to provide a contemporary overview of the field, as well as a useful guide and educational resource.

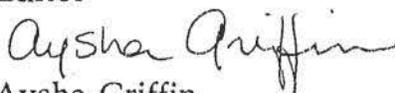
We are delighted to invite you to compile the contribution in the "Communications" section, on Information Theory: Sampling Theorem. This contribution is to be limited to about 10 manuscript pages, including tables and illustrations (two typed, double-spaced pages is equal to about one printed page). The contribution should consist of a summary of the sub-field using existing or new tables, data, figures and photos brought together with your narrative. Existing materials can be used, with sources cited, and we will obtain the required permissions for reprinting.

Guidelines for Contributors (information on manuscript preparation) will be provided if you agree to participate. We are very hopeful that you will be able to accept this invitation and join us in this important endeavor. In appreciation of the efforts of our contributors, CRC Press will provide you with a copy of the *Handbook*, and credit and affiliation will be given in the contents and at the top of each section.

Enclosed is additional information concerning the scope and schedule for the project. Please let us know if you have any questions in this regard. We would appreciate your prompt response as to your participation and thank you in advance for your cooperation.

Yours sincerely,


Richard C. Dorf
Editor


Aysha Griffin
Editorial Assistant

Handbook of Electrical Engineering

FACT SHEET

The *Handbook* will cover every aspect of electrical engineering in one volume totalling about 2000 pages. It will be an objective, refereed work of approximately 200 sections, each compiled by an expert on the subject. Each article will be reviewed by another expert, and the whole project will take about two years to publication.

CRC Press – Times Mirror Books is a leading technical publisher whose list includes the *Handbook of Mathematics* and the forthcoming *Handbook of Materials*. We expect the *Handbook of Electrical Engineering* to become a standard reference on the desks of engineering professionals worldwide. The scope is being confined to one volume to keep down the cost and encourage individual purchase. Organized by subject, the Handbook will include long articles of approximately eight printed pages (i.e. two manuscript pages to a printed page) and short articles of about five printed pages. Each article will include five references to texts and journals. Cross-references and an index will also be included. Credit and affiliation will be stated beneath the section title.

The *Handbook of Electrical Engineering* will define the discipline by bringing together the core of knowledge from all the fields encompassed by the electrical engineering disciplines involved. The articles will be written primarily for the electrical and computer engineering professional who is seeking factual information and, secondarily, for the professional from other engineering disciplines who wants an overview of the entire field or information on one specific aspect of it. The Handbook will clarify and correct misperceptions, as well as provide a proper understanding of electrical engineering principles and applications.

Richard C. Dorf, Professor of Electrical and Computer Engineering, University of California, Davis, is Editor-in-Chief of the Handbook. Dr. William Alexander, Research Associate, Division of Materials Science, College of Engineering, UCD, is serving as Managing Editor. Aysha Griffin, freelance copywriter and editor, is the Editorial Assistant for the project. They are being assisted by an Advisory Board of highly-respected professionals in the field of electrical engineering.

Page 2
Handbook Of Electrical Engineering
FACT SHEET

Advisory Board

Professor Frank Barnes University of Colorado, Boulder, CO	Optoelectronics
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Professor John W. Steadman University of Wyoming, Laramie, WY	Electronics, Instruments

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Jon Engelson

Name of Firm: IEEE

Location of Firm: Piscataway NJ 08855-1331

Facsimile Telephone Number: 908-562-1571

From: RJ Marks II Phone: 206-543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 5/31 Time: 10⁴⁰

Comments: _____

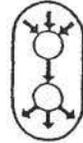
Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

908-562-1571



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 31, 1991

Irv Engelson
IEEE Technical Activities
P. O. Box 1331
Piscataway, NJ 08855-1331
FAX: 908-562-1571

Dear Irv:

Here are my proposed groupings for neural networks:

- Neural Networks
 - Learning Theory
 - NN Implementation
 - Biological neural networks
 - Fuzzy systems
 - Applications of NN's
 - Biologically motivated computing

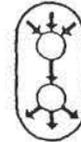
I will be calling you around 3:30 PM, your time, to talk about this and Russia/China travel.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks".

Robert J. Marks II, President
Neural Networks Council

Handwritten initials "Sile" in cursive.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-28-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Marilyn J. Prusan
Finance Administrator
Technical Activities Department
IEEE
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3861
FAX: (201) 562-1571

Dear Marilyn,

Our Council has approved the hosting of a President's dinner at the Seattle IJCNN. Presidents of neural networks societies from Japan, Russia, China, and Europe will be in attendance. The travel expenses for the Presidents will be covered by the Council. In two cases, Russia and China, reimbursement from receipts is quite difficult, and I have been advised that advancing funds is not a wise idea. For the airline tickets, Irv Engelson suggested that we have tickets waiting at the airports. We can use American based airlines. I have asked my secretary, Ms. Ruth Wagner, to work out the details on how do this at Council expense and risk. She will be contacting you concerning the details.

I also wish to have the Council reserve and pay for the lodging expenses of the Presidents of the Russian and Chinese neural network societies. Ruth will be contacting you concerning procedures for doing this also.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Russ Eberhart, NNC Treasurer,
Evangelia Tzanakou, NNC Secretary
Patrick K. Simpson, NNC Treasurer
Irv Engelson, TAB
Ruth Wagner

Sile

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Prof. Fukushima

Name of Firm: Osaka University

Location of Firm: Toyonaka, Osaka, Japan

Facsimile Telephone Number: +81 6 843 9354

From: Prof. R.J. Marks II Phone: 206-543-6990

UWATS Code: _____ Budget #: _____

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Department of Electrical Engineering FAX NUMBER (206) 543-3842

MESSAGE CONFIRMATION

DATE:05/28/91 TIME:15:46

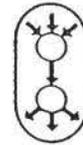
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DATE	TIME	TX-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
05/28	15:43	01'06"	06 843 9354	G3-S	002	OK

Ruth,

1. FAX
2. Air mail w/
IEEE Travel
3. cc's & bc's
get copy of
Fukushima letter

-Bob



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-28-91

Kunihiko Fukushima, President
Japanese Neural Networks Society
Dept. of Biophysical Engineering, Faculty of Engineering Science
Osaka University
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University of Washington
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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dear Prof. Fukushima,

I'm delighted that you will be able to attend the President's Dinner at the Seattle IJCNN. Since the Presidents of the world's neural network societies will be gathered in one place, a vehicle for public visibility is quite desirable. The Council will be hosting a President's Forum on Wednesday evening to which conference participants and the press will be invited. You, as the President of the *Japanese Neural Networks Society*, would be first choice for the representation of Japan. Each President will give a short (15-20 minute) overview of regional activities, followed by a short question and answer period. Please let me know if you are able to participate. We will be preparing publicity on the event shortly.

The *Executive Committee* of the Council has authorized reimbursement of your travel expenses for participation in the Dinner and Forum. The preferred procedure for reimbursement is submission of an IEEE form (enclosed) to the Treasurer of the Council along with original receipts. This procedure is standard within IEEE, and is used by members of the Council, myself included, for reimbursement of travel directly related to the activities of the Council. Reimbursement will be in accordance to IEEE policy and procedure. Some IEEE guidelines are explained on the form. The completed form and original receipts, should be mailed to

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Rd, San Diego, CA 92128
(619) 573-2417, FAX (619) 573 7400

I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson, NNC Treasurer

bc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Nomi Feldman, Meeting Management

ND ELECTRONICS ENGINEERS, INC.

✓ file

To: Dr. Robert J. Marks FAX: 001-1-206-543-3842
 President, IEEE Neural Network Council
 Interactive Systems Design Laboratory
 Department of Electrical Engineering, FT-10
 University of Washington
 Seattle, WA 98195, U.S.A.

Total number of sheets (including this sheet): 1

From: Kunihiro Fukushima
 Department of Biophysical Engineering
 Faculty of Engineering Science
 Osaka University
 Toyonaka, Osaka 560, Japan
 FAX: +81-6-843-9354
 Phone: +81-6-843-0747 (Desk)
 +81-6-844-1151 (University)

May 7, 1991

Dear Dr. Marks:

Thank you very much for your letter of invitation to the President' Dinner at the Seattle IJCNN in the Sheraton Hotel on Tuesday, July 9. I am glad to join you at the Dinner.

I appreciate very much for your kind offer to support my air fare and lodging. I would like to request the support.

I am planning to attend the ICANN-91 (June 24-28) at Helsinki before attending the IJCNN-91-SEATTLE. Although I have not decided the exact route yet, I will fly from Europe (probably via Zürich) to Seattle and then fly back to Tokyo. Can I have the support for the air fare in cash which is equivalent to the round trip to Seattle from Tokyo, or can I have a ticket of the flights which I actually use?

When I received your letter of invitation, I was just thinking of reserving my hotel room in Seattle, but I have not reserved it yet. Do I have to reserve it myself, or can I ask you a favor to do it in order to get the support for the lodging expenses? I am asking this because I want to stay in Seattle for the whole period of the IJCNN, and I do not know whether I can get the support for the lodging expenses for the whole period of my stay or only a part of it. Incidentally, a room which I would like to reserve is:

Preferred style: a single room
 Arrival: Saturday, July 6
 Departure: Saturday, July 13.

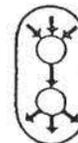
Looking forward to hearing from you soon,

Sincerely yours,

K. Fukushima



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-28-91

Prof. Rolf Eckmiller, President
JENNI

Heinrich-Heine-Universitat Dusseldorf
Division of Biocybernetics and Neuroinformatics
Department of Biophysics, Universitatstraße 1
4000 Dusseldorf
Federal Republic of Germany

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dear Rolf,

I'm delighted that you will be able to attend the President's Dinner at the Seattle IJCNN. I share your vision of global cooperation and hope that the first steps can be taken at the Seattle IJCNN.

Since the Presidents of the world's neural network societies will be gathered in one place, a vehicle for public visibility is quite desirable. The Council will be hosting a President's Forum on Wednesday evening to which conference participants and the press will be invited. You, as the President of JENNI, would be first choice for the representation of Europe. Each President will give a short (15-20 minute) overview of regional activities, followed by a short question and answer period. Please let me know if you are able to participate. We will be preparing publicity on the event shortly.

The *Executive Committee* of the Council has authorized reimbursement of your travel expenses. The preferred procedure for reimbursement is submission of an IEEE form (enclosed) to the treasurer of Council along with original receipts. This procedure is standard within IEEE, and is used by members of the Council, myself included, for travel reimbursement. The completed form and original receipts, should be mailed to

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Rd, San Diego, CA 92128
(619) 573-2417, FAX (619) 573 7400

Per your request, I hereby commit up to \$1100 towards support of your air travel (coach class) and lodging at conference rates. Transportation expenses to and from the airport are also included.

I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson, NNC Treasurer

bc: *Tzanakou*

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Baerhart
Jeldman
Prusan

1991 IEEE Neural Networks Council Document
Heinrich-Heine-Universität Düsseldorf Universitätsstraße 1 14 May, 1991
Division of Biocybernetics and Neuroinformatics Robert J. Marks II Library Archive
4000 Düsseldorf,
Fed. Rep. Germany
Tel: (0211) 311-4540
FAX: (0211) 34 22 29
e-mail:
ECKMILLE@DD0RUD81.BITNET

Prof. Robert J. Marks, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195 Tel(206)543-6990

RE:Presidential Dinner at IJCNN-91 in Seattle; your letter of 29 April,1991

Dear Professor Marks:

Let me thank you very much for your kind invitation to attend the Presidents' Dinner at the IJCNN-91 conference in Seattle on Tuesday the 9th of July. I feel very honored indeed and will gladly accept this invitation. Since the world has to learn how to grow together and to cooperate, I particularly welcome the opportunity to explore possibilities of team work at the global scale. As you know, the ICANN-91 in Helsinki just two weeks before IJCNN-91 in Seattle will provide a unique opportunity for many European neural network scientists to form an organization under the auspices of the JENNI council. At the same time I am involved in the formation of neural network research activities in Germany and at the European level(ESPRIT III). I presently envision a real chance incorporate neural computing R & D into the various High Performance Computer Programs in Europe, Japan, and the U.S. as Learning High Performance Computers and to propose applications also for Prediction and Forecasting of Complex Systems even at the global scale. Think about resources, population, or environment management. The currently used forecasting methods usually fail for chaotic systems, whereas there are several very exciting preliminary neural network studies suggesting their ability to handle chaotic complex systems as well. At a time when more and more people become afraid of new technologies it might be helpful to turn the argument around: what are the most promising technologies to manage global problems(complex chaotic systems)? Answer: a combination of space technologies(for global satellite-based data acquisition) and learning high performance computer technologies.

Sincerely yours,



(Professor and Head, Div. of Biocybernetics)
Member of the JENNI council

P.S. I would like to request reimbursement for the air fare(1,660DM= \$950 about) and for several days of hotel costs(Sheraton Seattle: \$129 per day) Please, confirm this support so that I can order the ticket at this super apex rate from American Airlines.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Prof Rolf Eckmiller

Name of Firm: Heinrich - Heine - Universität Düsseldorf

Location of Firm: 4000 Düsseldorf Federal Republic of Germany

Facsimile Telephone Number: 49 (0211) 34 22 29

From: Prof R J Marks II Phone: 206-543-6990

UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 5/28/91 Time: _____

Comments: _____

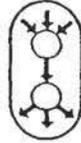
Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-28-91

Prof. Rolf Eckmiller, President
JENNI
Heinrich-Heine-Universitat Dusseldorf
Division of Biocybernetics and Neuroinformatics
Department of Biophysics, Universitatstraße 1
4000 Dusseldorf
Federal Republic of Germany

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

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I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

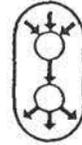
cc: Patrick K. Simpson, NNC Treasurer

MESSAGE CONFIRMATION

DATE:05/29/91 TIME:16:54

ID:UW ELEC. ENG. DE

DATE	TIME	TX-TIME	DISTANT STATION ID	MODE	PAGES	RESULT
05/29	16:51	02'01"	49 211 342229	G3-S	002	OK



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 24, 1991

Dr. Mohamed El-Sharkawi, Chair
NNC Ad Hoc Committee on Video Tutorials
Department of Electrical Engineering - FT-10
University of Washington
Seattle, Washington 98195

Dear Mohamed:

As you can see from the attached, the EAB is quite interested in video short courses. Four of our AdCom members (Eberhart, Miller, Simpson and Tzanakou) have authored books on the topic of neural networks. Superb talent, of course, also exists outside of the Council.

Sincerely,

A handwritten signature in cursive that reads 'Bob' with a small 'II' at the end.

Robert J. Marks II, President
Neural Networks Council

cc: Peter Wiesner, EAB

File

Bob -
I think NNC should do this
basic tutorial, if one is done.
I suggest that Pat would be good
to do it - I'd help him if he
wanted.
Russ



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

13 May 1991

Dr. Russell C. Eberhart
Program Manager
Jhu Applied Physics Laboratory
Johns Hopkins Road
Laurel, Maryland 20707

Dear Dr. Eberhart:

Recently Dr. Peter Wiesner, my colleague, spoke with Bob Marks about the continuing education efforts of the Educational Activities Department of the IEEE. We publish video tutorials and self-study courses on important topics for electric, electronics and computer engineers, both members and non-members.

These self-study courses typically consist of a study guide of anywhere from 75-200 pages which serves as an instructor, leading the participants through the course material. A textbook, chosen by the author, and a 100 question multiple choice final exam are included and are sometimes accompanied by a media component such as a software disk, or an audio/videotape when deemed appropriate to round out the material.

Often these are developed by the authors of the textbooks; a familiarity with the material and an opportunity to reach more people with the information are two of the many advantages of being the author of both the text and the self-study course.

Bob Marks mentioned to Peter Wiesner that you and Pat Simpson have published a text on Neural Networks. I would very much like to offer a course in this exciting technology and wondered if you might have an interest in developing such material or might be able to suggest a colleague who would.

I would be happy to provide you with more information about these SSCs, and would gladly send you our author's guide, proposal form and a standard contract.

If you have any questions, please do not hesitate to call. I look forward to hearing from you.

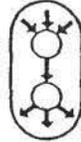
Sincerely,

A handwritten signature in cursive script that reads "Barbara Coburn".

Barbara Coburn



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-28-91

Sarah Eck
University of Washington Conference Services
Mail Stop GH-22

Sarah,

Below is my 'welcome' to participants in the Seattle IJCNN:

Welcome to the world's largest international conference on neural networks. The neural network tree has matured significantly in the past few years, yet its fruit remains the most delicious in the computational sciences. Ripening is measured by both the degree of application and the depth of theoretical understanding. A survey of the papers in this conference indicates that, indeed, neural networks are ripe and ready to pick. New growth also remains impressive. Witness the sprouting of branches of other linguistically and biologically motivated computational paradigms and architectures. The fruit is fun and sweet. Stuff yourself.

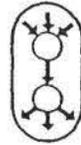
A handwritten signature in black ink that reads "Bob Marks".

Robert J. Marks II, President
IEEE Neural Networks Council

Slee



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

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Tel: (206) 543-6990 (O)
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Mail Stop GH-22

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A handwritten signature in black ink that reads "Bob Marks".

Robert J. Marks II, President
IEEE Neural Networks Council

WELCOME

On behalf of the IEEE Neural Networks Council, I am pleased to welcome you to the largest conference in the world on neural networks. The science and technology of neural networks has matured significantly in the past few years yet remains the most exciting field in the computational sciences. We are delighted that you are a part of this excitement. Our hope is that you find the conference to be intellectually stimulating and professionally fulfilling.

Sincerely,

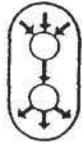
A handwritten signature in black ink, appearing to read "Bob" with a long horizontal stroke extending to the right.

Robert J. Marks II, President
IEEE Council on Neural Networks

Dear Friends, Colleagues, Members of INNS and IEEE:

I would like to take this opportunity to welcome you to our third IJCNN Conference. Having served as a paper reviewer for all three conferences and for the preceding IEEE and INNS conferences, I am pleased to note that the quality of the papers presented has significantly risen over time as the field has matured. We can expect many top-notch papers to be given at this meeting. I hope you enjoy them all and learn a lot. My congratulations to the General Chairs and all of the conference organizers for having assembled an outstanding program. See you at the meeting!

Bernard Widrow
President, International Neural Networks Society



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

May 28, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Robert A. Begun
23609 Skyview Terrace
Los Gatos, CA 95030

Dear Bob:

I am in receipt of your letter of 14 May 1991 and plan on being available on 14 June for a review of the Council. I prefer an afternoon appointment.

I am aware of neither the purpose for nor the format of the review.

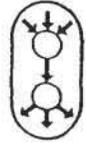
Sincerely,

A handwritten signature in cursive that reads "Bob Marks II".

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Russ Eberhart, NNC VP
Evangelia Tzanakou, NNC Secretary
Dino Sethi, IEEE

Sile



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

May 28, 1991

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Tel: (206) 776-8995 (H)
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Robert J. Marks II, President
IEEE Neural Networks Council

cc: Russ Eberhart, NNC VP
Evangelia Tzanakou, NNC Secretary
Dino Sethi, IEEE

14 MAY 1991

PROFESSOR ROBERT J. MARKS II
DEPARTMENT OF ELECTRICAL ENGINEERING
MS FT-10
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

DEAR BOB:

AS THE CHAIR OF A SOCIETY REVIEW SUB COMMITTEE I HAVE SCHEDULED THE NEURAL NETWORKS COUNCIL FOR A REVIEW ON 14 JUNE 1991 IN SAN FRANCISCO. THE REVIEW WILL TAKE PLACE IN ROOM BAYVIEW B AT THE HYATT REGENCY EMBARCADERO BETWEEN 8:00 AM AND 4:00 PM. THE EXACT TIME FOR THE REVIEW REMAINS TO BE DETERMINED BUT THE LENGTH OF THE REVIEW IS ESTIMATED AT ONE HOUR.

THE REVIEW BASICALLY COVERS THE INFORMATION PROVIDED BY THE STAFF AND YOUR COUNCIL FOR THE SOCIETY SELF STUDY QUESTIONNAIRE AND ANY SUPPLEMENTAL DATA AVAILABLE FOR 1990.

YOU MAY BRING WHOMEVER YOU WANT TO THE MEETING TO ASSIST YOU IN THE REVIEW. ALTHOUGH THE MEETING IS OPEN TO TAB MEMBERS, THE NUMBER OF PERSONS ATTENDING IS EXPECTED TO BE SMALL. ONLY MEMBERS OF THE SUBCOMMITTEE AND THE PAST AND PRESENT DIVISION X DIRECTORS WILL PARTICIPATE IN THE REVIEW. OTHER PERSONS ATTENDING WILL ONLY BE ALLOWED TO PARTICIPATE WITH MY CONSENT.

PLEASE ACKNOWLEDGE THAT YOU CAN ATTEND AND INFORM ME (AND A COPY TO DR. DINO SETHI AT IEEE PISCATAWAY) IF YOU HAVE ANY PREFERENCE FOR A PARTICULAR MEETING TIME.

YOUR TRULY,



BOB BEGUN
CC
LARRY ANDERSON
TONY EPHREMIDES
CHARLES ROBINSON
RONALD GEDNEY
JAMES TIEN
VINCE POOR
DINO SETHI

May 28 08:38 1991 standard input Page 1

From marks@u.washington.edu Mon May 27 18:05:32 1991
Return-Path: <marks@u.washington.edu>
Received: from milton.u.washington.edu by essex.ee.washington.edu (4.0/SMI-4.0)
id AA18172; Mon, 27 May 91 18:05:30 PDT
Received: by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA07432; Mon, 27 May 91 18:05:10 -0700
Date: Mon, 27 May 91 18:05:10 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9105280105.AA07432@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: m.prusan@ieee.org
Subject: more help!
Cc: marks@milton.u.washington.edu, wagner@essex.ee.washington.edu
Status: R

(a hard copy is being sent via snail mail)

5-29-91

Marilyn J. Prusan
Finance Administrator
Technical Activities Department
IEEE
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3861
FAX: (201) 562-1571

Dear Marilyn,

I need your help.

At our last AdCom, we voted to bestow the title of Founding
Editor on Herbert Rauch. I need an IEEE Certificate expressing
this. It should read something like

For his outstanding contributions in the establishment and
initiation of the IEEE Transactions on Neural Networks, the IEEE
Neural Networks Council hereby bestows upon Herbert E. Rauch the
title of

Founding Editor

of the IEEE Transactions on Neural Networks.

The certificate should contain the IEEE logo and that of the
Council (upper right corner of this stationary). It should also
have a place for me, as President, to sign. I would like to
present this award at the Seattle IJCNN in early July.

Thanks for your help.

May 28 08:38 1991 standard input Page 2

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Marilyn Pusan
Name of Firm: IEEE
Location of Firm: Piscataway
Facsimile Telephone Number: 908-562-1571
From: R Marks Phone: 206-543-6990
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 2 pages.

Date: 5/28/91 Time: 11⁰⁰

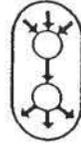
Comments: I've sent a copy of the routing to our "computer service person" asking if there's anything he can trace as to why you wouldn't have received the e-mail version
Rute

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-29-91

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Finance Administrator
Technical Activities Department
IEEE
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 562-3861
FAX: (201) 562-1571
908

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FOR HIS OUTSTANDING CONTRIBUTIONS IN THE ESTABLISHMENT AND INITIATION OF THE IEEE TRANSACTIONS ON NEURAL NETWORKS, THE IEEE NEURAL NETWORKS COUNCIL HEREBY BESTOWS UPON HERBERT E. RAUCH THE TITLE OF

FOUNDING EDITOR

OF THE IEEE TRANSACTIONS ON NEURAL NETWORKS.

The certificate should contain the IEEE logo and that of the Council (upper right corner of this stationary). It should also have a place for me, as President, to sign. I would like to present this award at the Seattle IJCNN in early July.

Thanks for your help.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

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Department of Electrical Engineering, FT-10

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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-26-91

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Rd,
San Diego, CA 92128

Dear Pat,

Enclosed is a receipt for \$355.90 in phone charges (\$320.05 + 11.2% tax) resulting from my duties as Council President. The charges are for an ExCom conference call and three calls to Japan.

I request reimbursement from Council funds.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', written in a cursive style.

Robert J. Marks II, President
IEEE Neural Networks Council

See

APR22		000-000-0000106	311		1000AM	311.41
APR22	BERWYN MD	301-953-5037	1		1200AM	.00
APR22	JAPAN	81527121167	1		1200AM	.00
APR22	MORGANTOWV	304-293-6371	1		1200AM	.00
APR22	LINDAVISCA	619-573-2417	1		1200AM	.00
APR22	LAUREL MD	301-792-6543	1		1200AM	.00
APR22	PRINCETONJ	609-258-2916	1		1200AM	.00
APR22	SEATTLE WA	206-543-6990	1		1200AM	.00
APR28	JAPAN	81527815111	2	481	859PM	3.54
APR28	JAPAN	81527815111	1	481	901PM	2.55
APR28	JAPAN	81527815111	1	481	941PM	2.55
		SUBTOTAL				334.10

J AFTER ANALYZING YOUR LONG DISTANCE CALLS THIS MONTH, WE FIND YOU COULD HAVE SAVED MONEY WITH THE AT&T REACH OUT AMERICA LONG DISTANCE CALLING PLAN. FOR 7.15 A MONTH YOU GET AN HOUR OF WEEKEND AND NIGHT DIRECT-DIALED AT&T OUT-OF-STATE CALLING, AND ADDITIONAL TIME COSTS LESS THAN 12 CENTS A MINUTE. FOR FURTHER INFORMATION, CALL 1 800 REACH OUT, EXT. 1312.

320⁰⁵

TOTAL LONG DISTANCE CHARGES 334.10

3.00% FEDERAL EXCISE TAX	ON	334.10	10.02
8.20% WASHINGTON STATE SALES TAX	ON	334.10	27.40

 AT&T NEW CHARGES 371.52

355⁹⁰

10 30270 7768995 890104 00004989 00046047 3RDA 00000 00161853



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 PLEASE SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

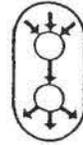
Ruth
 1. FAX letter 
 2. Air mail letter travel 
 with an IEEE form.

bc's to

Scinllen

Thanks!

- Bob -



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-28-91

Prof. Rolf Eckmiller, President
JENNI
Heinrich-Heine-Universitat Dusseldorf
Division of Biocybernetics and Neuroinformatics
Department of Biophysics, Universitatstraße 1
4000 Dusseldorf
Federal Republic of Germany

Dear Rolf,

I'm delighted that you will be able to attend the President's Dinner at the Seattle IJCNN. I share your vision of global cooperation and hope that the first steps can be taken at the Seattle IJCNN.

Since the Presidents of the world's neural network societies will be gathered in one place, a vehicle for public visibility is quite desirable. The Council will be hosting a President's Forum on Wednesday evening to which conference participants and the press will be invited. You, as the President of JENNI, would be first choice for the representation of Europe. Each President will give a short (15-20 minute) overview of regional activities, followed by a short question and answer period. Please let me know if you are able to participate. We will be preparing publicity on the event shortly.

The *Executive Committee* of the Council has authorized reimbursement of your travel expenses. The preferred procedure for reimbursement is submission of an IEEE form (enclosed) to the treasurer of Council along with original receipts. This procedure is standard within IEEE, and is used by members of the Council, myself included, for travel reimbursement. The completed form and original receipts, should be mailed to

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
General Dynamics, Electronics Division
17436 Ashburton Rd, San Diego, CA 92128
(619) 573-2417, FAX (619) 573 7400

Per your request, I hereby commit up to \$1100 towards support of your air travel (coach class) and lodging at conference rates. Transportation expenses to and from the airport are also included.

I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Pp K. Simpson, NNC Treasurer

... Tzanakou, NNC Secretary
... oerhart, NNC Vice-President AND ELECTRONICS ENGINEERS, INC.
... i Feldman, Meeting Management

File Pusa

1991 IEEE Neural Networks Council Document
Heinrich-Heine-Universität Düsseldorf
Division of Biocybernetics and Neuroinformatics
Department of Biophysics
R. Eckmiller, Ph.D.

Robert J. Marks II Library Archive
Universitätsstraße 1 14 May, 1991
4000 Düsseldorf,
Fed. Rep. Germany
Tel: (0211) 311-4540
FAX: (0211) 34 22 29
e-mail:
ECKMILLE@DD0RUD81.BITNET

Prof. Robert J. Marks, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195 Tel(206)543-6990

RE:Presidential Dinner at IJCNN-91 in Seattle; your letter of 29 April,1991

Dear Professor Marks:

Let me thank you very much for your kind invitation to attend the Presidents' Dinner at the IJCNN-91 conference in Seattle on Tuesday the 9th of July. I feel very honored indeed and will gladly accept this invitation. Since the world has to learn how to grow together and to cooperate, I particularly welcome the opportunity to explore possibilities of team work at the global scale. As you know, the ICANN-91 in Helsinki just two weeks before IJCNN-91 in Seattle will provide a unique opportunity for many European neural network scientists to form an organization under the auspices of the JENNI council. At the same time I am involved in the formation of neural network research activities in Germany and at the European level(ESPRIT III). I presently envision a real chance incorporate neural computing R & D into the various High Performance Computer Programs in Europe, Japan, and the U.S. as Learning High Performance Computers and to propose applications also for Prediction and Forecasting of Complex Systems even at the global scale. Think about resources, population, or environment management. The currently used forecasting methods usually fail for chaotic systems, whereas there are several very exciting preliminary neural network studies suggesting their ability to handle chaotic complex systems as well. At a time when more and more people become afraid of new technologies it might be helpful to turn the argument around: what are the most promising technologies to manage global problems(complex chaotic systems)? Answer: a combination of space technologies(for global satellite-based data acquisition) and learning high performance computer technologies.

Sincerely yours,

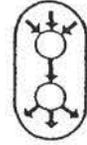


(Professor and Head, Div. of Biocybernetics)
Member of the JENNI council

P.S. I would like to request reimbursement for the air fare(1,660DM= \$950 about) and for several days of hotel costs(Sheraton Seattle: \$129 per day) Please, confirm this support. I can order the ticket at this super apex rate from American Airlines.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

5-28-91

Nomi Feldman
5665 Oberlin Dr, Suite 110
San Diego, CA 92121
619 453 6222, fax 619 535 3880

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Nomi,

I need your help.

The Council will be sponsoring a *President's Forum* at the Seattle IJCNN. The event is sponsored, organized and financed by the Council, and is, in then sense, not associated with the IJCNN.

The *President's Forum* will have, as its participants, the Presidents of the major neural network societies of the world (see the attached list). The *Forum* will be open to conference attendees and the press on Wednesday evening. Each President will give a short (15-20 minute) presentation of the activities of their society, followed by a short question-answer period. Since the Council is host, I will be the MC. Admission is free.

I have talked with Sarah Eck (206 543 0888) who has told me she has reserved space. (We anticipate 250 attendees). Below is a list of the things I would like you to do. Much will have to be coordinated with Sarah.

1. Prepare and print a one page flyer to be included in the material given to the conference registrants.
2. Prepare posters for display at the conference announcing the Forum.
3. Prepare a press release for the Forum.
4. Prepare (fancy) name badges and large letter name 'plaques' to place on the table in front of the sitting Presidents at the Forum.
5. Arrangement for an overhead and sound system at the Forum.

I will be calling you shortly on this subject.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Patrick K. Simpson, NNC Treasurer
Sarah Eck, Seattle IJCNN

File

Robert J. Marks II, President
IEEE Neural Networks Council
Department of Electrical Engineering, FT-10
University of Washington
Seattle, Washington, 98036
206 543 6990
FAX 206 543 3842
marks@milton.u.washington.edu

Prof. Rolf Eckmiller, President
JENNI
Heinrich-Heine-Universität Dusseldorf
Division of Biocybernetics and Neuroinformatics
Department of Biophysics
Universitätstraße 1
4000 Dusseldorf,
Federal Republic of Germany
Tel: (0211) 311-4540
FAX: (0211) 34 22 29
ECKMILLE@DD0RUD81.bitnet

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute
Rostov State University
194/1 Stachka Ave
Rostov-on-Don 344104
USSR
(8632) 280577
telex: 123228 TEMR
FAX (8632) 244311

Prof. Zong Sha, President
Chinese Neural Networks Council
Zhou Mengqi
Chinese Institute of Electronics
Beijing 100026 CHINA
Telex 210431 CIE CN
86-1-5001144
FAX 86-1-5005233

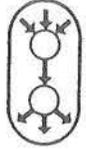
Kunihiko Fukushima, President
Japanese Neural Networks Society
Dept. of Biophysical Engineering
Faculty of Engineering Science
Osaka University
Toyonaka, Osaka 560, Japan
+81 6 844 1151 (University)
+81 6 843 0747 (Desk)
FAX: +81 6 843 9354

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director

Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550
(202) 357 9618 (O)
(301) 345 1446 (H)
FAX (202) 357-9408
pwerbos@note.nsf.gov



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

5-16-91

To: Members of the IJCNN Oversight Committee (IOC).

IEEE Neural Networks Council

Roy S. Nutter, Jr. Chair
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Don E. Brown
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, CA 90024

Robert W. Newcomb
Mirosystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

International Neural Networks Society

Paul J. Werbos, President
INNS
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Mr. Morgan Downey
INNS, Suite 600
1250 24th St., NW.
Washington D.C., 20037.

On behalf of IOC Chair, Roy S. Nutter, I hereby announce that a meeting of the IOC will take place at the Seattle IJCNN at the *Washington State Convention & Trade Center* on Sunday, July 7, 1991 from 2 to 5 PM in Room 602.

Sincerely,

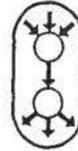


Robert J. Marks II, President
IEEE Council on Neural Networks

cc: NNC ExCom



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

5-16-91

To: Members of the IJCNN Oversight Committee (IOC).

IEEE Neural Networks Council

Roy S. Nutter, Jr. Chair
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, CA 90024

Don E. Brown
Dept. of Systems Engineering
University of Virginia
Charlottesville, VA 22903

Robert W. Newcomb
Mirosystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD

International Neural Networks Society

Paul J. Werbos, President
INNS
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Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Mr. Morgan Downey
INNS, Suite 600
1250 24th St., NW.
Washington D.C., 20037.

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Sincerely,

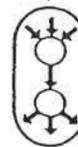

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: NNC ExCom

File



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 22, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, CA 92128

Dear Pat:

Please initiate transfer of Council funds for the attached bill.

Sincerely,

A handwritten signature in cursive that reads "Bob" with a small "w" underneath.

Robert J. Marks II, President
Neural Networks Council

File



Mr. Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Mr. Marks:

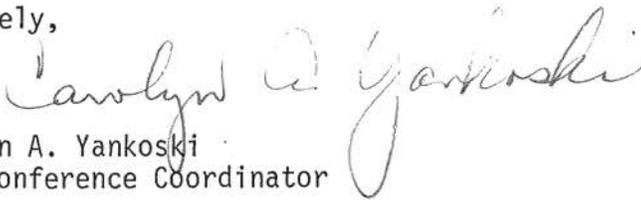
Enclosed please find a copy of the Neural Networks notes along with the Newsletter, which was included for all the mailings.

According to our telephone conversation, the agreement for the cost is \$200.00. This covers duplicating, postage and referral on the air on May 23, 1991. Please make a check payable to IEEE and send it to me at the following address:

IEEE Service Center
Educational Activities
445 Hoes Lane
Box 1331
Piscataway, NJ 08855-1331

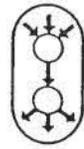
Attn: Carolyn A. Yankoski

Sincerely,


Carolyn A. Yankoski
Videoconference Coordinator



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

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Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 20, 1991

Karen Haines, President
ISSNNEt
Department of ECE
Carnegie-Mellon University
Pittsburgh, PA 15213

Dear Karen:

With the concurrence of NNC Education Chair, Dr. Robert W. Newcomb, I hereby approve Council support of your travel and lodging to attend the July NNC AdCom meeting in Seattle.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks" with a small "II" at the end.

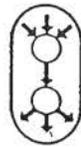
Robert J. Marks, President
Neural Networks Council

CC: Patrick K. Simpson, NNC Treasurer
Robert W. Newcomb, NNC Education Chair

File



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 20, 1991

Paul Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

Herein please find a signed copy of the Dissolution Agreement.

Sincerely,

Robert J. Marks, President
Neural Networks Council

CC: Roy S. Nutter, IOC Chair
Mary An DeWald, IEEE Conference Services
Laura Jobman, IEEE TAB
NNC ExCom
Conference Chairs

Side

Dissolution Agreement

Whereas the societies named the IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) have entered into an Agreement concerning the joint sponsoring of the International Joint Conferences on Neural Networks series and, whereas, the NNC has chosen to dissolve that Agreement, and, whereas, the Presidents of the INNS and the NNC have been empowered by their organizations to resolve all unfinished business initiated as a result of the Agreement, the NNC and INNS do hereby agree as follows:

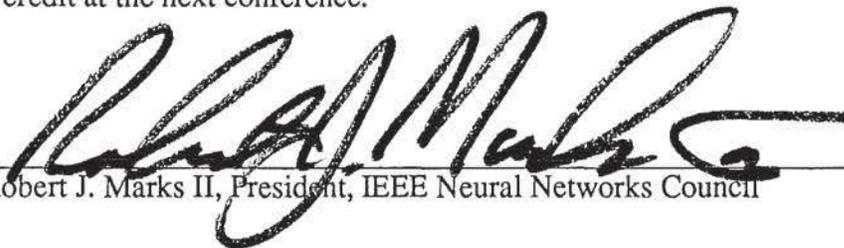
1. The Agreement (including Bylaws) will remain in effect through May 1, 1994, except as specifically amended by this Dissolution Agreement. This Dissolution Agreement is binding on both societies and may be altered only in writing with authorized joint signatures by both the President of INNS and the President of the NNC.

2. The following schedule of jointly sponsored meetings and corresponding Conference Chairs is hereby approved.

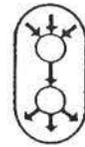
IJCNN Seattle	summer, '91	Prof. D. Rumelhart, Chair
IJCNN Singapore	autumn, '91	Prof. T.S. Low, Chair
IJCNN Baltimore	summer, '92	Prof. C. Lau, Chair
IJCNN Beijing	autumn, '92	Prof. Zong Sha, Chair
IJCNN Portland	summer, '93	Prof. G. Lendaris, Chair
IJCNN Japan	autumn, '93	Prof. S. Amari (Organizing Comm. Chair) Prof. T. Fukuda, (Steering Comm. Chair)

Neither the INNS nor the NNC will be involved, at any level, in any other major conference on artificial neural networks through May 1, 1994. A major conference is any meeting that has an attendance of no more than 400 participants at the conference sight. Commitments of involvement with major conferences by either Society made prior to February 1, 1991 are specifically excluded if the commitment(s) were made in accordance with the Agreement.

3. The NNC and INNS will share equally from the surplus from all IJCNN's and will equally share in the payment of any deficit originating from an IJCNN. No portion of the surplus will be set aside by either the NNC or the INNS as seed money for future conferences. If seed money has been deducted from the shared surplus of an earlier conference, the amount will be treated as a credit at the next conference.


Robert J. Marks II, President, IEEE Neural Networks Council 5/12/91


Paul J. Werbos, President, International Neural Networks Society



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-15-91

Bradley Dickinson, Chair
NNC Awards Committee
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
bradley@ivy.princeton.edu
(609)258 -4644
FAX: (609) 258-3745

Dear Brad,

I am delighted to inform you that, at the recommendation of the Awards Committee, a majority of the Council's AdCom has approved the motion to award Council *Pioneer Awards* this year to Profs. Grossberg, Kohonen and Widrow. I enthusiastically support the recommendation of the Awards Committee and the vote of the Council.

Please express my congratulations when you inform Profs. Grossberg, Kohonen and Widrow.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

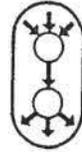
Robert J. Marks II, President
IEEE Neural Networks Council

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President

A small handwritten signature in cursive, possibly reading 'Sile'.



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

5-15-91

Evangelia Micheli-Tzanakou, Secretary
IEEE Neural Networks Council
Biomedical Engineering
Rutgers University
P.O. Box 909
Piscataway, NJ 08854

Dear Litsa,

For the record, I enclose the AdCom votes for the recent Council mail ballot regarding the Pioneer Awards. Copies of written, FAX and hard copy of e-mail responses are enclosed. Based on these responses, the motion to present the awards to Profs. Grossberg, Kohonen and Widrow is approved.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: (cover letter only)
Brad Dickinson, NNC Awards Chair
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President

File

**AT&T Bell Laboratories
Whippany Road
Whippany, New Jersey 07981**

DATE: 5/10/91

TO: R.J. MARKS II

LOCATION: UNIV. OF WASHINGTON

EXTENSION: _____

TELECOPIER NO: 206 543-3842

NO. OF PAGES: 2
(Incl. cover)

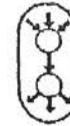
FROM: S.V. KARTALOPOULOS

LOCATION: _____

EXTENSION: 201-386-4289

FAX Cornet 232-6346
Commercial 201-386-6346
Contact:

MESSAGE:



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-7-91

Neural Networks Council Mail Ballot

Dear NNC AdCom Members,

On behalf of the NNC's Awards Committee and its Chair, Brad Dickinson, I present the following motion for your consideration. Please respond within the week with a written, e-mail or FAX response to the motion.

Background: The Council has approved the Pioneer Award for neural networks researchers who have made their main contributions to the field fifteen years ago or earlier. No more than three of these awards may be given each year. A solicitation for nominations and documentation was made in the *IEEE Transactions on Neural Networks* by Dr. Dickinson. The Committee has arrived at recommendations for three awardees for this year based on submitted nominations. These recommendations must be approved by a majority vote of AdCom.

Motion: The AdCom of the *IEEE Neural Networks Council* hereby approves the recommendation of the NNC Awards Committee to present the Council's *Pioneer Award* to the following eminent neural networks researchers (listed alphabetically):

- Stephen A. Grossberg
- Teuvo Kohonen
- Bernard Widrow.

}
} yes, S.V. Kartalopoulos
} 5/10/91

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

From karplus@CS.UCLA.EDU Sat May 4 15:48:32 1991
Received: from Lanai.CS.UCLA.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA17329; Sat, 4 May 91
15:48:27 -0700
Received: by lanai.cs.ucla.edu
(Sendmail 5.61a+YP/3.07) id AA24528;
Sat, 4 May 91 15:48:23 -0700
Date: Sat, 4 May 91 15:48:22 PDT
From: Dr Walter Karplus <karplus@CS.UCLA.EDU>
Message-Id: <910504.224822z.24520.karplus@lanai.cs.ucla.edu>
To: Robert Marks <marks@u.washington.edu>
Subject: Re: MAIL BALLOT
In-Reply-To: Message of Sat, 4 May 91 13:18:26 -0700
from "Robert Marks <marks@u.washington.edu>"
<9105042018.AA01669@milton.u.washington.edu>
Status: R

I approve all three awards. W.Karplus

From rpl@sst.ll.mit.edu Mon May 6 05:24:52 1991
Received: from SST.LL.MIT.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA28545; Mon, 6 May 91
05:24:47 -0700
Received: by sst.ll.mit.edu (5.61/3.3.sst)
id AA18798; Mon, 6 May 91 08:23:43 -0400
Date: Mon, 6 May 91 08:23:43 -0400
From: rpl@SST.LL.MIT.EDU (Richard Lippmann)
Message-Id: <9105061223.AA18798@sst.ll.mit.edu>
To: marks@u.washington.edu
Subject: Re: MAIL BALLOT
Cc: rpl@sst.ll.mit.edu
Status: RO

I approve the motion.
Richard Lippmann

From bradley@ivy.Princeton.EDU Mon May 6 06:53:39 1991
Received: from Princeton.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA02830; Mon, 6 May 91
06:53:35 -0700
Received: from ivy.Princeton.EDU by Princeton.EDU
(5.61++/2.74/princeton)
id AA10383; Mon, 6 May 91 09:06:35 -0400
Received: by ivy.Princeton.EDU (5.51/1.110)
id AA26304; Mon, 6 May 91 09:55:15 EDT
Date: Mon, 6 May 91 09:55:15 EDT
From: Bradley Dickinson <bradley@ivy.Princeton.EDU>
Message-Id: <9105061355.AA26304@ivy.Princeton.EDU>
To: marks@u.washington.edu
Subject: Re: MAIL BALLOT
Status: RO

I vote in favor of the motion to award the three Pioneer
Awards.

Bradley Dickinson

From deb@tweety.ipc.virginia.edu Mon May 6 13:06:37 1991
Received: from uvaarpa.Virginia.EDU by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA01569; Mon, 6 May 91
13:06:31 -0700
Received: from tweety.ipc.Virginia.EDU by
uvaarpa.Virginia.EDU id aal6900;
6 May 91 16:06 EDT
Return-Path: <deb@tweety.ipc.Virginia.EDU>
Received: by tweety.ipc.Virginia.EDU (4.1/SMI-2.0)
id AA07592; Mon, 6 May 91 16:06:14 EDT
Date: Mon, 6 May 91 16:06:14 EDT
From: deb@tweety.ipc.Virginia.EDU (Donald Brown)
Message-Id: <9105062006.AA07592@tweety.ipc.Virginia.EDU>
To: marks@u.washington.edu
Subject: Re: MAIL BALLOT
Status: RO

Bob,

I vote for the resolution.

Best regards,

Don Brown

From wes@mrips.bgsm.wfu.EDU Mon May 6 18:34:16 1991
Received: from mcnc.mcnc.org by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA00596; Mon, 6 May 91
18:33:57 -0700
Received: from mrips.bgsm.wfu.EDU by mcnc.mcnc.org
(5.59/MCNC/3-21-91)
id AA25355; Mon, 6 May 91 21:33:52 -0400
for marks@u.washington.edu
Received: by mrips.bgsm.wfu.EDU (4.1/SMI-4.0)
id AA14302; Mon, 6 May 91 21:31:11 EDT
Date: Mon, 6 May 91 21:31:11 EDT
From: wes@mrips.bgsm.wfu.EDU (Wes Snyder)
Message-Id: <9105070131.AA14302@mrips.bgsm.wfu.EDU>
To: marks@u.washington.edu
Subject: Re: MAIL BALLOT
Status: RO

I acknowledge to outstanding contributions of all three
researchers in
the field. Certainly, all 3 are deserving of such an award.
Are we to vote
for one, or to endorse the presentation of the award to all
three. If the
latter, I vote aye.

Wes

From newcomb@eng.umd.edu Tue May 7 11:38:55 1991
Received: from blake.u.washington.edu by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA18570; Tue, 7 May 91
11:38:45 -0700
Received: from medinfo.eng.umd.edu by blake.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA04507; Tue, 7 May 91
11:38:31 -0700
Received: by medinfo.eng.umd.edu (5.65+(UMDENG)/umdeng-
0.4/09-20-90)
id AA00940; Tue, 7 May 91 14:37:23 -0400
Date: Tue, 7 May 91 14:37:23 -0400
From: newcomb@eng.umd.edu (Robert Newcomb)
Message-Id: <9105071837.AA00940@medinfo.eng.umd.edu>
To: marks@blake.u.washington.edu
Subject: NNC Students' Money
Cc: newcomb@sparcee.eng
Status: RO

Also got your email about the Pioneer Awards, so cast my
vote in favor. But

From kuh@wiliki.eng.hawaii.edu Tue May 7 13:57:14 1991
Received: from wiliki.eng.hawaii.edu by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA27435; Tue, 7 May 91
13:56:06 -0700
Message-Id: <9105072056.AA27435@milton.u.washington.edu>
Received: by wiliki.eng.hawaii.edu
(15.11/15.6) id AA22144; Tue, 7 May 91 10:30:58 hst
Date: Tue, 7 May 91 10:30:58 hst
From: Anthony Kuh <kuh@wiliki.eng.hawaii.edu>
To: marks@milton.u.washington.edu
Subject: pioneer award
Status: RO

Dear Bob,
I approve of the nomination of Grossberg, Kohonen, and
Widrow for the
Pioneer Award.
Cheers,
Tony Kuh

From les@uw-isdl.ee.washington.edu Sun May 12 20:33:35 1991
Received: from edison.ee.washington.edu by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA18888; Sun, 12 May 91
20:33:31 -0700
Received: from uw-isdl.ee.washington.edu by
edison.ee.washington.edu
(5.61/UW-NDC Revision: 2.6) id AA20021; Sun, 12 May 91
20:39:28 -0700

Received: from stutz.ee.washington.edu by uw-
isdl.ee.washington.edu (4.1/SMI-4.1)
id AA29444; Sun, 12 May 91 20:33:23 PDT
Date: Sun, 12 May 91 20:33:23 PDT
From: les@uw-isdl.ee.washington.edu (Les Atlas)
Message-Id: <9105130333.AA29444@uw-isdl.ee.washington.edu>
To: marks@u.washington.edu
Subject: Re: NNC Awards
Cc: les@uw-isdl.ee.washington.edu
Status: R

Hi Bob, I vote yes for all.

-les

(I trust e-mail is fine for this ballot, but let
me know if you need a mail version.)

From etzanako@nova.rutgers.edu Mon May 13 08:52:26 1991
Received: from NOVA.RUTGERS.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA02784; Mon, 13 May 91
08:52:21 -0700
Received: by nova.rutgers.edu (5.59/SMI4.0/RU1.4/3.08)
id AA01318; Mon, 13 May 91 11:53:43 EDT
Date: Mon, 13 May 91 11:53:43 EDT
From: etzanako@nova.rutgers.edu
Message-Id: <9105131553.AA01318@nova.rutgers.edu>
To: marks@u.washington.edu
Subject: Re: NNC Awards
Cc: @nova.rutgers.edu
Status: R

Bob
My vote goes to B. Widrow.
Thanks
Litsa

From etzanako@nova.rutgers.edu Mon May 13 13:57:49 1991
Received: from NOVA.RUTGERS.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA29526; Mon, 13 May 91
13:57:42 -0700
Received: by nova.rutgers.edu (5.59/SMI4.0/RU1.4/3.08)
id AA02163; Mon, 13 May 91 16:59:04 EDT
Date: Mon, 13 May 91 16:59:04 EDT
From: etzanako@nova.rutgers.edu
Message-Id: <9105132059.AA02163@nova.rutgers.edu>
To: marks@u.washington.edu
Subject: vote
Cc: etzanako@nova.rutgers.edu
Status: RO

Dear Bob

As I said over the phone, I vote for all three candidates.
Thanks for clearing up
the confusion.
Litsa

From sanchez@eemips.tamu.edu Thu May 16 09:47:12 1991
Received: from blake.u.washington.edu by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA06033; Thu, 16 May 91
09:47:07 -0700
Received: from EEMIPS.TAMU.EDU by blake.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA11117; Thu, 16 May 91
09:47:00 -0700
Received: by eemips.tamu.edu (5.61/1.34)
id AA08891; Thu, 16 May 91 11:46:55 -0500
Date: Thu, 16 May 91 11:46:55 -0500
From: sanchez@eemips.tamu.edu (Edgard Sanchez Sinencio)
Message-Id: <9105161646.AA08891@eemips.tamu.edu>
To: marks@blake.u.washington.edu, sanchez@ipvsp1.unipv.it
Subject: Pioneer Award
Status: R

I cast my vote for Bernard Widrow.

Edgar Sanchez-Sinencio

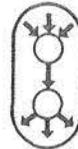
From @UWAVM.U.WASHINGTON.EDU:SANCHEZ@IPVMV2.UNIPV.IT Thu May
16 13:19:37 1991
Received: from uwavm.u.washington.edu by
milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA05367; Thu, 16 May 91
13:19:34 -0700
Received: from UWAVM.U.WASHINGTON.EDU by
UWAVM.U.WASHINGTON.EDU (IBM VM SMTP R1.2.2MX) with BSMTMP id
7832; Thu, 16 May 91 13:17:10 PDT
Received: from IPVMV2.UNIPV.IT by UWAVM.U.WASHINGTON.EDU
(Mailer R2.04) with
BSMTMP id 1942; Thu, 16 May 91 13:17:09 PDT
Message-Id: <2994@IPVMV2.UNIPV.IT>
Date: Thu, 16 MAY 91 19:09 N
From: SANCHEZ%IPVMV2.UNIPV.IT@UWAVM.U.WASHINGTON.EDU
Comments: INFNET domain is equivalent to BITNET domain:
INFNET;
INFNET has been disestablished Dec 31, 1988
Subject: Vote
To: MARKS@MILTON.U.WASHINGTON.EDU
X-Original-To: marks@milton.u.washington.edu
Status: R

I want to vote for Prof Kohonen.

Edgar Sanchez_ Sinencio



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

*I vote in favor of
the motion for
the 1991 Pioneer
awards.*

Bob Marks
5/14/91

F A X M E M O

To: Prof. Robert J. Marks II 1991 / 5 / 15 /
UW. Dept. EE (206-443-3842)

Subject: I agree the motion on NNC Pioneer Award.
 Sheets with cover

〒441 豊橋市天伯町字雲雀ヶ丘1-1
豊橋技術科学大学 情報工学系
白井 支朗

Shiro Usui, Prof., Ph.D
Information and Computer Sciences
Toyohashi University of Technology
Tempaku, Toyohashi 441, JAPAN

TEL: (代表) :0532-47-0111
(直通) :0532-46-7806
FAX: (直通) :0532-46-7806
(系直通) :0532-48-3422
電子メール :usui@tut.ac.jp

Phone :[+81]-532-47-0111, ext. 526, 496
:[+81]-532-46-7806 (Direct)
Fax :[+81]-532-46-7806 (Direct)
:[+81]-532-48-3422 (Dept.)
e-mail:usui%tut.ac.jp@relay.cs.net

Sorry in late reply ! See you in Seattle.

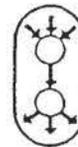
Bob, I vote YES

JENB

NEURAL NETWORKS COUNCIL



IEEE

Robert J. Marks II
PresidentPLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-7-91

Neural Networks Council Mail Ballot

Dear NNC AdCom Members,

On behalf of the NNC's Awards Committee and its Chair, Brad Dickinson, I present the following motion for your consideration. Please respond within the week with a written, e-mail or FAX response to the motion.

Background: The Council has approved the Pioneer Award for neural networks researchers who have made their main contributions to the field fifteen years ago or earlier. No more than three of these awards may be given each year. A solicitation for nominations and documentation was made in the *IEEE Transactions on Neural Networks* by Dr. Dickinson. The Committee has arrived at recommendations for three awardees for this year based on submitted nominations. These recommendations must be approved by a majority vote of AdCom.

Motion: The AdCom of the *IEEE Neural Networks Council* hereby approves the recommendation of the NNC Awards Committee to present the Council's *Pioneer Award* to the following eminent neural networks researchers (listed alphabetically):

Stephen A. Grossberg

Teuvo Kohonen

Bernard Widrow.

Sincerely,

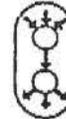
Robert J. Marks II, President
IEEE Council on Neural Networks

FOR BOSTON



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 778-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

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- | |
|------------------------|
| 1 Stephen A. Grossberg |
| 2 Teuvo Kohonen |
| 3 Bernard Widrow. |

I vote for 1 & 3 & against
2. (too soon for 2.)
- Pat Simpson Pat Simpson

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

**CALIFORNIA INSTITUTE OF TECHNOLOGY
ELECTRICAL ENGINEERING
MAIL CODE: 116-81
PASADENA, CA 91125**

FAX #818-568-8670

Please deliver the following pages to:

To: Robert J. Marks, II, President
IEEE Council on Neural Networks FAX: 206-543-3842

From: E.C. Posner

Date: 5/13/91

The total number of pages being faxed, including this page: 2

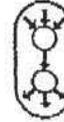
If you do not receive all pages or have any problems with transmitting, please call and ask for Bette at **818-356-3659.**

Notes: _____

Thank you.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu



5-7-91

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- Stephen A. Grossberg
- Teuvo Kohonen
- Bernard Widrow.

*Approved
E. E. Farmer
5/13/91*

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

NNC

Copy

May 20, 1991

Dr. Vincent F. Perna, Jr.
102 Northway Road
Ithaca, New York 14850

Dear Dr. Perna

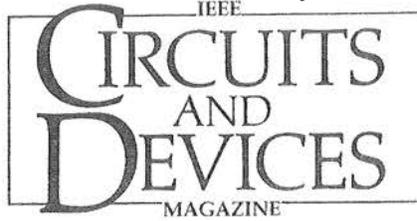
Enclosed is a copy of our Council Newsletter. Contacts for both 1991 IJCNN's are listed therein.

Thank you for your interest in the activities of the Council.

Sincerely,

Robert J. Marks, President
Neural Networks Council

File



Reply to: Dr. Ronald W. Waynant
Editor in Chief
Food and Drug Administration
Center for Devices and Radiological Health
Electro-Optics Branch HFZ-134
5600 Fishers Lane
Rockville, MD 20857 U.S.A.
Telephone (301) 443-2965 FAX 301-443-2263

May 9, 1991

Dr. Robert J. Marks II
University of Washington
Department of Electrical Engineering
Seattle, Washington 98195

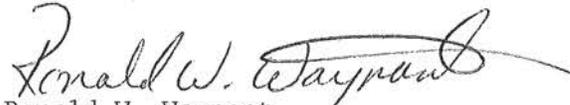
Dear Dr. Marks,

Please find listed below the name and address of one of our readers who has requested more information on the IJCNN '91 conference. A call for papers appeared in Circuits and Devices Magazine in the March 1991 issue.

Vincent F. Perna, Jr.
102 Northway Road
Ithaca, New York 14850
(607) 257-6237

Should you have any questions about the address please do not hesitate to contact us. Thank you for your cooperation.

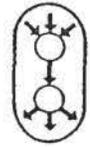
Sincerely,


Ronald W. Waynant

RWW:emp



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 15, 1991

Mohamed El-Sharkawi
NNC Ad Hoc Committee on Video Tutorials
Department of Electrical Engineering
University of Washington
Seattle, Washington 98195

Dear Mohamed:

Attached is a list of tutorial speakers at the Seattle IJCNN.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

Attachment

cc: Peter Wiesner, IEEE EAB
Russ Eberhart, NNC Vice President

File

16:00-19:00

PRE-REGISTRATION

Monday, July 8

07:00-19:30

REGISTRATION

08:00-10:00

TUTORIALS

Room 608

***Neuroscience for Neural Networks**
Terrence Sejnowski, *The Salk Institute*

Room 609

***Unsupervised Learning**
Stephen Grossberg, *Boston University*

Room 606

***Theory and Applications of Learning Algorithms in the Madaline and Backpropogation Family**
Bernard Widrow, *Stanford University*

Room 611

***Learning, Generalization and Model Selection**
John Moody, *Yale University*

Room 607

***Neurocontrol and Fuzzy Logic: Connections and Designs**
Paul Werbos, *NSF*

10:00-10:15

REFRESHMENT BREAK

10:15-12:15

TUTORIALS

Room 608

***Neuroscience for Neural Networks**
Terrence Sejnowski, *The Salk Institute*

Room 609

***Neuronal Plasticity and Learning**
Thomas Brown, *Yale University*

Room 606

***Neural Networks for Speech Recognition and Understanding**
Alex Waibel, *Carnegie Mellon*

Room 611

***Neural Networks for Pattern Recognition**
Francoise Fogelman Soulie, *Mimetics*

Room 607

***Trajectory Formation and Control of Redundant Robots**
Mitsuo Kawato, *ATR*

Room 612

***Neurocomputing Applications**
Robert Hecht-Nielsen, *HNC*

12:15-13:30

LUNCH BREAK

13:30-15:30

TUTORIALS

Room 608

***Theory and Applications of Learning Algorithms in the Madaline and Backpropogation Family**
Bernard Widrow, *Stanford University*

Room 607

***Cognitive Science: Software Hints for Neural Net Hardware**
James Anderson, *Brown University*

Room 611

***Learning in Neural Networks: Information versus Complexity**
Yaser Abu-Mostafa, *Caltech*

Room 609

***Unsupervised Learning**
Stephen Grossberg, *Boston University*

Room 606

***Neurocontrol and Fuzzy Logic: Connections and Designs**
Paul Werbos, *NSF*

Room 612

***Neurocomputing Applications**
Robert Hecht-Nielsen, *HNC*

15:30-15:45

REFRESHMENT BREAK

15:45-17:45

TUTORIALS

Room 608

***Theory and Applications of Learning Algorithms in the Madaline and Backpropogation Family**
Bernard Widrow, *Stanford University*

Room 607

***Cognitive Science: Software Hints for Neural Net Hardware**
James Anderson, *Brown University*

Room 606

***Neural Networks for Speech Recognition and Understanding**
Alex Waibel, *Carnegie Mellon*

Room 609

***VLSI Implementation of Neural Networks**
Federico Faggin, *Synaptics*

Room 611

***Neural Networks for Pattern Recognition**
Francoise Fogelman Soulie, *Mimetics*

Room 612

***Learning, Generalization and Model Selection**
John Moody, *Yale University*

18:00-19:30

WELCOME RECEPTION

20:00-21:00

**OPENING SESSION: Opening remarks from Demetri Psaltis, Larry Jackel, David F
INNS welcome from Paul Werbos, IEEE awards from Bob Marks**

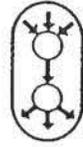
21:00-22:00

PLENARY SESSION: "Spontaneous Pattern Formation in Neural Networks"
Jack Cowan, *University of Chicago*

*Does this meet with
your approval?
(Space is very tight)*



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 15, 1991

Dennis Bodson
IEEE Standards Department
P. O. Box 1331
Piscataway, New Jersey 08855-1331

Dear Dennis:

The Chair of the Neural Network Council's Standards Committee is

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, CA 90024
(213) 825-2929
FAX (213) 825-2273

He is the appropriate member of our Council to serve on the 1992 Standards Board.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Walter Karplus, NNC Standards Committee Chair
Russ Eberhart, NNC Vice President
Evangelia Tzanakou

Sile



IEEE

STANDARDS DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833233, FAX (908) 562-1571

May 8, 1991

To: IEEE Society Presidents

I am the current past Chairman of the IEEE Standards Board. A major responsibility assigned to me is that of Chairman of the IEEE Standards Board Nominating Committee. The committee is currently preparing a list of candidates for consideration as members of the 1992 Standards Board. As you may be aware, we are seeking membership from all societies of IEEE.

It would be appreciated if you could provide me with names of any candidates you feel are appropriate. It should be noted that members of the Standards Board are required to pay their own travel expenses.

Please contact me by June 14, 1991 concerning this matter. My telephone number at work is (703) 692-2124, and my fax number is (703) 746-5240. I look forward to hearing from you in the very near future.

Sincerely,

Dennis Bodson

cc: Marco Migliaro

INFORMATION
(908) 562-3800

ADMINISTRATION
(908) 562-3801

MARKETING
(908) 562-3824

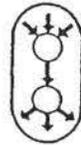
NESC/GLOBAL ADDRESS
(908) 562-3812

SEMINARS
(908) 562-3805

STANDARDS BOARD
(908) 562-3807



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-13-91

Russell Eberhart
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20723
(301) 953-5037
(301) 953-1093 (FAX)
rce1@aplvm.bitnet

Russ,

I will not be responding to this, and thought I'd give you the opportunity.

Sincerely,

A handwritten signature in black ink, appearing to be 'R. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

SPECTRUM

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. 345 EAST 47TH STREET, NEW YORK, N.Y. 10017, U.S.A. (212) 705-7574

Edward A. Torrero
Executive Editor

May 2, 1991

Prof. Robert J. Marks, II
Dept. of Electrical Engineering
University of Washington
MS FT-10
Seattle, WA 98195

Dear Prof. Marks:

In the process of planning our feature editorial coverage, we write to the heads of IEEE Societies, Councils and Committees because we do not wish to miss any opportunities to get the best, most current, and most accurate technical inputs to upcoming feature articles. Twice a year, the enclosed forms, containing a number of planned topics, are sent to the presidents for their assistance in identifying top authorities only in those areas familiar to them.

These individuals would become candidates to serve as sources, reviewers, or possibly authors of technical articles.

Major projects like single-topic issues or article series may have advisory boards made up of technical experts, and the names recommended may be candidates for such boards as well.

Should you wish to participate in this process, please fill out the forms and return them to me within six weeks of receipt of this letter. Alternatively, if you wish to discuss the matter, call me directly at (212) 705-7574.

Cordially,



ET/rlf
Enclosures



IEEE SPECTRUM

CATEGORY: Special Reports/Special Issues

Article Topics

Article Sources/Reviewers/Authors*

1. Gulf War legacy

2. Concurrent engineering

3. NASA

4. Profiles: Innovative geniuses

5. Fax, e-mail sociotechnical

impacts

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

*Indicate advisory board candidate with asterisk.

CATEGORY: Special Reports/Special Issues

Article Topics

Article Sources/Reviewers/Authors

6. WARC '92

7. Data communications

8. Software for EEs

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

CATEGORY: Applications/design
Article Topics

Article Sources/Reviewers/Authors

6. Designing for quality/
reliability

7. Data visualization software

8. ASICs testing

9. EMC for micro-based products

10. Human factors:
instrumentation

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

CATEGORY: Tutorials

Article Topics

Article Sources/Reviewers/Authors

1. SIMD computer architectures

2. Compressed-air energy storage

3. Radar speed traps

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

CATEGORY: Perspectives/Careers

Article Topics

Article Sources/Reviewers/Authors

1. Amorphous materials in
power engineering

2. Supercollider challenges

3. Company Profile: Nokia

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

CATEGORY: Perspectives/Careers

Article Topics

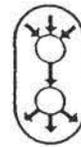
Article Sources/Reviewers/Authors

4. Women in engineering

5. Electric vehicles

IEEE Spectrum, acting in the interest of the IEEE, deems this information confidential. Under no circumstances should it be made available to non-IEEE, competitive publications.

File



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-12-91

Stamatios Kartalopoulos
NNC Liaison to the IEEE Press
AT&T Bell Laboratories
1 Whippany Rd.
Whippany, New Jersey 07981
(201) 386-4289
FAX: (201) 386-6346

Dear Dr. Kartalopoulos,

As you can see by the attached, the IEEE Press publications for the Council are under way, thanks largely to your efforts.

I have a few 'leads' you may wish to explore.

The first is a text on neural networks by Tom Caudell. Tom is with Boeing and is an affiliate Professor in our department. He will also lead the industrial panel at the Singapore IJCNN. Tom has generated a detailed outline for a text in neural networks. His address is:

Dr. Thomas Caudell
Boeing Computer Services
ms\71-22, PO Box 24346
Seattle, WA 98121 0346
206 865 3763

I have talked with Tom about the Council's interest in publications.

The other potential author is

Dr. Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025
(415) 859-2314
ruspini@ai.sri.com

Dr. Ruspini is the tutorial chair for FUZZ-IEEE in 1992 and will probably chair the 1993 FUZZ-IEEE. He is preparing, with two other authors, a book on fuzzy systems. I have also told Dr. Ruspini about the Council's involvement with IEEE's publications

Both books, I believe, are highly worthy of consideration by the Council's Publications Committee.

Sincerely,

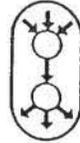
A handwritten signature in black ink, appearing to read 'RJM II', with a long horizontal flourish extending to the right.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Toshio Fukuda, NNC Publications Chair
Russ Eberhart, NNC Vice-President



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 2, 1991

Dudley Kay, Executive Editor
IEEE Press
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Dudley:

Enclosed is a review of Fountains of Neural Networks edited by Clifford Lau.

Sincerely,

Robert J. Marks, President
Neural Networks Council

Enclosure

Hey, Bob, I think I like your title better. "Foundations" is so trite, whereas "Fountains" is more evocative of a dramatic image. Still, how would our customers react?

Thanks for reconfirmation of Stam and the NNC's enthusiasm for books. He's doing a fine job for you and us. Hoping NNC soon initiates their own book proposals! Hope to see you at the Seattle NNC conference, but who the heck picked Seattle??! Best,

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Selected Reprint Books Sponsored by an IEEE Society

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor</u>	<u>Total</u>
First \$50,000	4.0%	1.0%	5.0%
Next \$50,000	8.0%	2.0%	10.0%
Next \$100,000	12.0%	3.0%	15.0%
All over \$200,000	15.0%	5.0%	20.0%

Original Monographs Proposed by an Author

A. For books of narrow scope and limited market, the standard royalty is a flat 10%

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor*</u>	<u>Total</u>
First \$50,000	10.0%	1.0%	11.0%
Next \$50,000	10.0%	2.0%	12.0%
Next \$100,000	10.0%	3.0%	13.0%
All over \$200,000	10.0%	5.0%	15.0%

B. For books with multiple markets and above-average sales potential, there is an escalating royalty.

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor*</u>	<u>Total</u>
First \$50,000	10.0%	1.0%	11.0%
Next \$50,000	12.5%	2.0%	14.5%
Next \$100,000	15.0%	3.0%	18.0%
All over \$200,000	18.0%	5.0%	23.0%

Original Monographs Initiated by a Sponsor

<u>Sales</u>	<u>Total</u>	<u>Sponsor</u>	<u>Author</u>
First \$50,000	11.0%		
Next \$50,000	14.5%		
Next \$100,000	18.0%		
All over \$200,000	23.0%		

Royalty division as agreed between the Author and Sponsor.

We'd like to work closely with NAC in these 2 areas.

Original Monographs in an Approved Series

<u>Sales</u>	<u>Author</u>	<u>Series Editor</u>	<u>Sponsor</u>
First \$50,000	10.0%	2.0%	1.0%
Next \$50,000	12.5%	2.0%	3.0%
All Over \$100,000	15.0%	2.0%	5.0%

ROYALTY DIVISION: These royalty percentages are recommended. By prior arrangement between the author and the sponsor, the royalty percentages may equal any division of the Total.

SPONSORSHIP: Percentages shown are for a "Full Commitment" to the development and promotion of the book. This entails three written reviews at the proposal and final manuscript draft stages, advice on the promotion of the book to the intended audience, and assistance in direct promotion of the book to its Members. Should the sponsoring Society be unwilling or able to provide this book support, Sponsor royalties will be at the rate of 1% of sales. Sponsorship of author-initiated books will be at the option of the Author and the Press. an IEEE entity is at the option of the author.

Please return to:

Dudley Kay, Managing Editor
IEEE PRESS, P.O. BOX 1331
445 HOES LANE
PISCATAWAY, NJ 08855
(908) 562-3969

Date Submitted: _____

Date Received: _____



IEEE PRESS - MONOGRAPH PROPOSAL GUIDELINES

In order to evaluate your book proposal fairly and accurately, the IEEE PRESS requests that you respond to the following categories of information about your book idea. Your careful response is crucial to obtaining a positive decision to publish your book. Leave nothing to chance and assume that we know little about the need and importance of your topic. Recognize that your proposal will be sent to a number of outside reviewers who must see exactly what you are trying to do and why you think it is marketable.

If you are able, put your proposal on a word processor so that you can use all the space that you need. The spaces provided here are inadequate in most cases. Additional sheets of explanation are expected.

Attach your outline to this proposal and enclose sample chapters (never more than three) if available.

I. ABOUT YOUR BOOK - THE BASICS

A. Working Title: _____

Subtitle: _____

B. Author(s)/Editor(s) Name, Address, Affiliation, Phone numbers and FAX number, if available.

1) _____ 2) _____

3) _____ 4) _____

C. Book Series (if any): _____

D. Expected month/year of completion: _____

E. Estimated length in double-spaced ms. pages: _____ OR printed book pages _____

F. Estimated number of drawings/diagrams: _____ Est. # of photographs: _____

G. Other book(s) contemplated (if any): _____

- A. Provide a **brief and direct overview** of your book's topic and coverage. Please avoid technical jargon.
- B. Why is your book needed? What is your **rationale** for writing it? In what ways will your book directly benefit the reader?
- C. Based on what you said above, what will be the most **outstanding features** of your book?
- D. Are there **background developments** in the field that will help us better understand your book and the need for it?

It is extremely important that we understand your **intended readership** as precisely as you can describe it, going from primary audience to secondary audience, and so on. Reviewers will be selected as representative of your primary intended audience.

- A. Describe your **intended audience** in general terms.
- B. What kind of **academic preparation or work experience** is assumed in order to understand your book?
- C. If a professional reference book, name **specific industries, businesses, and professions** which will find your book of particular interest. Write out full name rather than acronym. (List in order of importance.)
- D. What are various **job titles or functions** of individuals who will find your book of interest? (List in order of importance.)
- F. If your book has **classroom adoption** possibilities, would you consider it:
- introductory textbook advanced undergraduate textbook
- graduate textbook supplemental reading
- continuing education textbook

Identify course **titles** in which your book could be used:

- A. List, in order of importance, the **IEEE Societies** whose members are potential buyers of your book. Supply the name(s) of the Society contact who would be appropriate to review the proposal.
- B. List in order of importance the **non-IEEE institutes and professional societies** whose members are potential buyers of your book. Use full name rather than acronym. Suggest reviewers, if known.
- C. Which **professional conferences** (both IEEE & non IEEE) are specifically targeted to the audience who will be interested in your book? (List in order of importance.)
- D. Which **trade, business and professional journals and newsletters** are likely to review your book? (List in order of importance.)
- E. List, in order of importance, journals or magazines where it would be appropriate to advertise your book.
- F. Often there are non-academic opportunities for bulk sales of a book. Please indicate institutions, corporations, societies, etc. who might consider your book for **large quantity purchase**. Include a contact name, phone, and address if possible.
- G. Indicate any **specialized mailing lists** that might be available for promoting your book by direct mail.

- O. List non-IEEE books similar to yours in the professional/reference field. Provide author, title, and publisher if known. How does your book compare? In what ways is it superior? Please be aware that existing books are used to measure the market for your book. **Avoid leaving this section blank; it implies there may be no market for your book.**
- P. List related IEEE Press Books, Standards, or Conference Proceedings that your book might be very broadly similar to so that we can compare sales histories and consider copromotion possibilities.
- Q. Are there key points or sales opportunities that we did not cover in this questionnaire?



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

May 9, 1991 (908) 562- 3861

Patrick K. Simpson
17436 Ashburton Road
San Diego, CA 92128

Dear Mr. Simpson:

At the request of Professor Robert Marks, enclosed is check
in the amount of \$750.00 for an advance on expenses.

To comply with audit requirements, it will be appreciated
if you will provide receipts for expenses, with balances
so that we can adjust our records.

Sincerely yours

A handwritten signature in cursive script that reads "Marilyn Prusan".

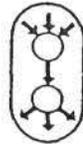
Marilyn Prusan
Finance Administrator
Technical Activities

CC Robert Marks *RNC-11*

check mailed 5/20/91



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 12, 1991

Nomi Feldman
Conference Coordinator
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121

Dear Nomi:

At a recent shortcourse, a number of people signed for information concerning upcoming IJCNN's. Could you send flyers of Baltimore to them? (Singapore, also, if you have them.)

Sincerely,

A handwritten signature in cursive, appearing to read 'Bob Marks'.

Robert J. Marks II, President
Neural Networks Council

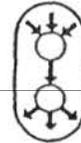
Enclosure

TO GET MORE INFORMATION ON NEURAL NETWORKS COUNCIL DOCUMENT
PLEASE GIVE US YOUR NAME & ADDRESS



IEEE

NEURAL NETWORKS COUNCIL



Russell Eberhart
Vice President

PLEASE REPLY TO:
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20723 USA
Tel: (301) 953-5037
FAX: (301) 953-1093
e-mail: rce1@aplvm.bitnet

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3.- SALAH LASHIN - 1730 TECHNOLOGY DR. S.J. CA 95110

4. JACK T. PHIPPS 064E BOX 321 MC A1008 OKLA CITY OK 73101-0321

5. J. LUMBRERAS, HIDROELECTRICA ESPAÑOLA, HERNANDEZ 3 MADRID SPAIN

6. SAIFUR RAHMAN EE DEPT, VIRGINIA TECH, BLACKSBURG, VA 24061-0111

7 ALLAN SILK, MANITOBA HYDRO, BOX 815 WINNIPEG, MANITOBA CANADA R3C 2P4

8. RICH NISHA, Pacificorp Electric Ops 800 PSB 920 SW 6th AVE PORTLAND, OR 97204

9 - TIM LINENBRINK, Snohomish PUD, Box 1107, EVERETT WA 98206

10. Steve D. Kuo, 1050 S. Stanley Pl. #138, Tempe AZ 85281

11. Shinya Fukui; 1-1-2 Wadasaki-cho, Hyogo-ku, Kobe, JAPAN, Mitsubishi Electric Corp.

12. BRIAN CHAPPELL 2412 POTTERFIELD RD., BALTIMORE, MD. 21207

13. TONY TSANG - BC HYDRO 17th Floor, 970 BURRARD ST, VANCOUVER, B.C. CANADA V5G 2A6

14 - MICHEL VINCELETIE - HYDRO-QUEBEC - 75 RENE LEVESQUE OUEST, MONTREAL, QUE H2Z 1A4
11^e FLOOR COMPLEXE DES JARDINS

15. M. KHORRAMABADI 3444 ELM AVE Baltimore MD 21211

16 - ROBERT AUBE 855 SAINTE-CATHERINE EST MONTREAL QUE H2L 4P5
20^e ETAGE PLACE PUPUIS

17. CARL IMPARATO PACIFIC GAS & ELECTRIC, 77 BENE, RM 1582, SAN FRANCISCO CA 94106

18. William R. Sacy FPL PO 14000 JUNO BEACH FL 33408

19. James F. Judson Rochester Robert J. Marks II Library Archive Rochester NY 14649

20. SAM SABOUNCHI Johnm Yokokawa
1201 W. Crosby rd
Carrollton, TX 75006

21. HIROYUKI MORI, DEPT. OF EE, MEIJI UNIVERSITY, 1-1-1 HIGASHIMITA,
TAMA-KU, KAWASAKI 214, JAPAN

22 KHOSROW MOSLEHI ABB SYSTEMS CONTROL
2550 WALSH AVE SANTA CLARA, CA 95051 USA

23. WEN-LIANE HUANG Dept of EE, National Kaohsiung Institute of Technology
Kaohsiung City 80782, Taiwan

24. SAM FLEMING 901-A TEXAS ST, CITY OF DENTON
DENTON, TX 76201 UTILITIES

25. Mohammad Fotouhi Department of Technology
U of Maryland
Princess Anne, MD 21853

24: PAUL CHENG SYSTEM CONTROL DEPT.
HONGKONG ELECTRIC CO. LTD.
HEC OPERATIONAL HEADQUARTERS, 9/F.
APLEICHAU POWER STATION. HONG KONG
Fax: 832-8100506

25 Pedro Santamaría Sulzer Brothers Ltd
Los Arrayanes 1225
Cipolletti 8324 RN
ARGENTINA

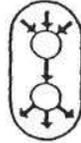
26. VLADIMIRO MIRANDA INESC - LGO. MOMPILHIE - 24000 PORTO
PORTUGAL

27. XUAN-DAI, DO ECOLE POLYTECHNIQUE
DEPT. OF Electrical and Computer Engineering
Tel (514) 340-4870 P.O. BOX 6079, Station "A"
Fax (514) 340-4147. MONTREAL (QUEBEC), CANADA, H3C-3A7.



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 10, 1991

Roz Snyder, Managing Editor
3603 Octavia Street
Raleigh, North Carolina 27606

Dear Roz:

At the recommendation of the newsletter Production Editor, Dr. Charles Robinson, I hereby approve support for your travel expenses to attend the IEEE AdCom meeting in July and the Publications Workshop. Please use the excursion fare and we will cover a second day of per diem expenses incurred to obtain the lower air fare.

Sincerely,

Robert J. Marks II
Professor

cc: Patrick K. Simpson, Treasurer
Charlie Robinson

✓ file

I didn't do Snyder letters as

Snyders give 2 options:

1. Fly Sunday

Flight \$1078

hotel + 1 day
of per diem 175

\$1253

or

2. Fly Saturday

Flight \$463

hotel + 1 day
of per diem \$638

give them the extra day
& per diem because
they have to leave earlier

175
813

Saving 813
440
x 2
\$880

IEEE saves \$880 by having them fly

1 day earlier + giving them extra per diem - Allowed?
They left the choice up to someone (you?)

May 9, 1991

TO: Prof. Marks

FROM: Ruth

The FAX machine indicated there was an error on one page - rather than send all 4 pages I called Dr. Robinson who said that the distortion on the one page was not critical and as long as I was on the line he would give a verbal okay to both trips. He said it works out to about \$.20 a member - and if you're serious about a newsletter it doesn't make sense for her to go to one meeting and not the other.

University of Washington
Department of Electrical Engineering FT-10
Seattle, Washington 98195

Facsimile Cover Sheet

The following pages are for:

Attention: Dr. Charles Robinson, Production Editor
Name of Firm: Hines VA Hospital - Rehabilitation R&D Center
Location of Firm: Hines, Illinois
Facsimile Telephone Number: (708) 343-1965
From: Robert J. Marks II Phone: (206) 543-3842
UWATS Code: _____ Budget #: _____

This Transmission including cover page contains 4 pages.

Date: 5/9/91 Time: 10:00 AM (PDT)

Comments: Dear Charlie: Please review the attached requests and give me
your recommendation.

Sincerely, *Bob* Robert J. Marks II, President NNC

Please call (206) 543-2150 if you do not receive all of the pages.

Department of Electrical Engineering FAX NUMBER (206) 543-3842

May 3, 1991

Dr. Robert J. Marks
Dept. of EE MS FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

Earlier this spring you indicated that as editor of the Newsletter I should attend the IEEE editors' workshop in Newark on June 3. On looking at the agenda, it appears that for newsletters (as opposed to transactions) most of the meeting will deal with the logistics of newsletter production, which is Roz's department. Roz has requested that R&A and NN split the cost of her attendance at the meeting. Therefore, unless you think it is really important that I personally represent the Council, I would prefer not to attend, particularly since we will be preparing for the movers that week.

Thanks.

Cordially,



Wesley E. Snyder

cc Charles Robinson

Rosalyn Graham Snyder

May 1, 1991

Dr. Robert J. Marks
Dept. of EE MS FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

In this letter I am requesting travel funds to attend the IEEE Editors' workshop June 3 at the Sheraton Newark. Total expenses will be about \$650.00 for air fare, hotel, and one day per diem. Because I also am working with the IEEE Robotics and Automation Society, I am requesting that each organization pay half my expenses or \$325.00.

Cordially



Rosalyn G. Snyder

cc Charles Robinson

Rosalyn Graham Snyder

May 3, 1991

Dr. Robert J. Marks
Dept. of EE MS FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

In this letter I am requesting financial support to attend the AdCom meeting of the Neural Networks Council in Seattle. My intention is to stay in Seattle only for the Publications and AdCom meetings but if you would like for me to stay during the conference to assist with publicity I could arrange to do so. If it is necessary to take the excursion fare, leaving on Saturday I can do, although it makes life somewhat complicated.

Assuming that I leave on Sunday and return on Tuesday my expenses would be \$1078 for air fare plus hotel and per diem for one day and night, ~\$175.00, for a total of ~\$1250.00

The excursion fare, which would require leaving on Saturday would be \$463.00.

Please advise me so that I may schedule my trip. I look forward to hearing from you.

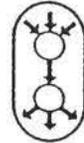
Cordially


Rosalyn G. Snyder



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 10, 1991

Elizabeth Maglori

Our FAX machine is down so I am enclosing this in hopes that it reaches you faster. I will also try to FAX it on Monday. We are completely out of NNC envelopes so I'm trying to get this information to you as quickly as possible.

Sincerely,

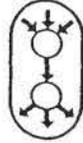
A handwritten signature in cursive script, appearing to read 'Ruth'.

Ruth A. Wagner
(206) 543-6061

Enclosures



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 10, 1991

Patrick K. Simpson, Treasurer
Neural Networks Council
17436 Ashburton Road
San Diego, CA 92128

Dear Pat:

I hereby approve NNC support of Wes Snyder to attend the NNC AdCom meeting in Seattle using the excursion fare and granting a second day of per diem to cover the extra travel day.

Sincerely,

Robert J. Marks II
Professor

cc: Wes Snyder

See

May 3, 1991

Dr. Robert J. Marks
Dept. of EE MS FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

In this letter I am requesting financial support to attend the AdCom meeting of the Neural Networks Council in Seattle. If it is necessary to take the excursion fare, leaving on Saturday I can do, although it makes life somewhat complicated.

Assuming that I leave on Sunday and return on Tuesday my expenses would be \$1078 for air fare plus hotel and per diem for one day and night, ~\$175.00, for a total of ~\$1250.00

The excursion fare, which would require leaving on Saturday would be \$463.00.

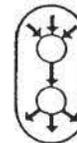
Please advise me so that I may schedule my trip. I look forward to hearing from you.

Cordially



Wesley E. Snyder





NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-10-91

Peter Wiesner
IEEE Educational Activities Department
P.O. Box 1331
445 Hoes Lane
Piscataway, New Jersey 08550-1331
(908) 562 5500
FAX: 908-981-1686

Dear Peter,

I write to confirm that the *IEEE Neural Networks Council* does not endorse the attached tutorial proposal.

Review of future tutorial proposals in the areas of neural networks, fuzzy systems, genetic algorithms and intelligent systems should be brought to the attention of

Mohamed A. El-Sharkawi, Chair
NNC AdHoc Committee on Video Tutorials
Dept. of Electrical Engineering
University of Washington, FT-10
Seattle, WA 98195
206 685 2286
FAX:(206) 543-3842
elsharkawi@u.washington.edu

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
M.A. El-Sharkawi

Sile

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 991-0060 TELEX 933333 FAX (201) 981-1686

FAX TRANSMITTAL COVER SHEET

TO: Dr. Robert Marks DATE: 5-5-91

COMPANY: Dept of EE TIME: 10:30 am
Univ of Washington

FAX NO.: (206) 543-3842 NO. OF PAGES 4
(including this sheet)

FROM: Peter Wiesner DEPT: EDUCATIONAL ACTIVITIES
FAX # (908) 981-1686

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HANDLING INSTRUCTIONS:

- HIGH PRIORITY (HAND DELIVER IMMEDIATELY)
- CALL WHEN COMPLETED
- NORMAL PROCESSING

OTHER We have received the attached proposal from Dr. Cherkassky to do a video tutorial. Do you think we should pursue this? our FAX (908) 981-1686. Thanks.

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Washington, DC 20036-5104
Facsimile No.: (202) 785-0835

NONPARAMETRIC
NEURAL NETWORKS AND REGRESSION ANALYSIS—

Vladimir Cherkassky

Department of Electrical Engineering
University of Minnesota
Minneapolis, MN 55455
tel (612) 625-9597

PROPOSAL FORM TO DEVELOP A VIDEO TUTORIAL

The IEEE Educational Activities routinely enlists top experts to share their knowledge with others in the field through the television medium. In a typical Video Tutorial, topics are captured in-depth through the skillful use of visuals in a 90-120-minute lecture/presentation. The purpose of this form is to provide our reviewers with the information needed to gain project approval. Please do not hesitate to contact us for additional information.

Name VLADIMIR CHERKASSKY
Address Dept EE, UNIV of MINNESOTA, MINNEAPOLIS MN 55455
Phone (612) 625-9597 Fax _____ Compmail chekass@ee.umn.edu
Society IEEE Computer

(Attach additional sheets if necessary for items 1-6 below)

1. INTENDED AUDIENCE AND PRE-REQUISITES:

Audience: RESEARCHERS, PRACTITIONERS AND STUDENTS
INTERESTED IN NEURAL NETWORK COMPUTING

PREREQUISITES: GENERAL BACKGROUND IN NEURAL
NETWORK TERMINOLOGY (i.e. backpropagation,
ACTIVATION FUNCTION etc.)

Abstract 2. GENERAL TOPIC CONTENT/OUTLINE: Neural network computing and nonparametric statistical techniques share the same goals but use different terminology. Hence, we first discuss the use of statistical techniques and ideas for neural network research. We then describe a new neural network algorithm (based on Kohonen's feature maps) for nonparametric regression. Simulation results illustrate superior performance and versatility of this algorithm for low and high dimensional problems. Finally, we present practical applications of this technique for automated knowledge extraction from raw data.

3. OBJECTIVES--WHAT VIEWERS WILL LEARN FROM THE TUTORIAL:

- to establish the connection between neurocomputing and nonparametric statistical techniques
- to show the usefulness of interpreting major ~~new~~ neural network research issues (i.e. generalization, learning, from the statistical perspective
- to present a new neural network algorithm for nonparametric regression and its applications for automated knowledge extraction from raw data.

APR 25 '91 16:12

EDUCATION

870 P03

4. ESTIMATED DEADLINES:

Preparation of visuals: May 9, 1991
Recording of presentation: ~~May~~ May 14
Editing of presentation: MAY 16
Development of workbook: MAY 20
Completion: MAY 21

5. DO YOU PLAN TO USE COPYRIGHTED MATERIALS? IF SO, HAVE YOU OBTAINED THE NECESSARY PERMISSION?

NO copyrighted material will be used

6. BIOGRAPHICAL INFORMATION: Vladimir Cherkassky is Associate Professor of EE at University of Minnesota. He received his Ph.D in Electrical and Computer Engineering from the University of Texas at Austin in 1985. His research interests include parallel ~~and distributed~~ processing and neural network computing, and he has published 45 technical papers in these fields.

PLEASE CONSULT THE PRESENTER GUIDELINES FOR TIPS ON GIVING A HOME VIDEO TUTORIAL. DON'T HESITATE TO CONTACT THE EDUCATIONAL ACTIVITIES DEPARTMENT FOR ADDITIONAL INFORMATION AND GUIDANCE.

Send copies of the proposal to:

Beth Babeu Murray
Educational Activities Department
P.O. Box 1331
445 Hoes Lane
Piscataway, NJ 08550-1331

Phone: (908) 562-5499
Fax: (908) 981-1686
Telex: 833233



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 991-0060 TELEX 833233 FAX (201) 981-1686

FAX TRANSMITTAL COVER SHEET

TO: Dr. Robert Marks DATE: 5-5-91

COMPANY: Dept of EE TIME: 10:30 am
Univ of Washington

FAX NO.: (206) 543-3842 NO. OF PAGES 4
(including this sheet)

FROM: Peter Wiesner DEPT: EDUCATIONAL ACTIVITIES
FAX # (908) 981-1686

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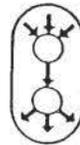
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Telex: 833233



NEURAL NETWORKS COUNCIL

May 6, 1991

The Seattle IJCNN will be the largest and most exciting meeting in neural networks this year in North America. We are delighted at your interest and look forward to meeting you in Seattle.

There is another IJCNN this year, November 18-21, 1991 in Singapore. The Singapore IJCNN is the responsibility of the *IEEE Neural Networks Council* (IEEE), whereas the Seattle IJCNN is run and managed by the *International Neural Network Society* (INNS). Both IJCNN's, though, are jointly sponsored by the IEEE and the INNS.

The deadline for submission of papers to the Singapore IJCNN is May 31, 1991. Air fare to Singapore is much less than you would expect. We hope you can attend and participate.

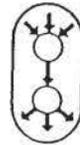
For more information about the Singapore IJCNN, see the March or May issue of the *IEEE Transactions on Neural Networks*, or contact

Nomi Feldman
'91 Singapore IJCNN
5665 Oberlin Dr
Suite 110
San Diego, CA 92121
619 453 6222
fax 619 535 3880

We expect dynamic conferences in both Seattle and Singapore. We hope you can attend both.

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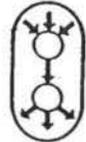
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NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 2, 1991

Dudley Kay, Executive Editor
IEEE Press
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Dudley:

Our Council's Liasion to the IEEE Press continues to be

Stamatios Kartalopoulos
NNC Liaison to the IEEE Press Sincerely,
AT&T Bell Laboratories
One Whippany Road
Whippany, New Jersey 07891

Sincerely,

A handwritten signature in cursive that reads "Robert J. Marks II" with a small "rw" monogram at the end.

Robert J. Marks, President
Neural Networks Council

Enclosure

IEEE PRESS MEMORANDUM

**IEEE SERVICE CENTER**

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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DIRECT NUMBER (201) 562-

TO: Society Presidents *R.J. Marks, II* cc: Len Shaw
Society Publications Chairs Phyllis Hall

FR: Dudley Kay - Executive Editor

SUBJECT: Society Liaison to the IEEE Press

DATE: April 15, 1991

=====

Late last Fall, Press Editor-in-Chief Len Shaw and I wrote to the Society Presidents and Pub Chairs advising of the revitalized IEEE Press and our desire to build much stronger links to the Societies and Councils. At that time we asked for consideration of the appointment of a Society Liaison to the Press for the mutual benefit of communicating book proposals which we had received and book ideas that your Society might like to see. For the sake of continuity, we asked for a minimum of a two year appointment.

We have been gratified by the enthusiastic response and resulting book ideas and Book Series which have resulted from many Societies. However, we neglected to take into account the "changing of the guard" within many Societies and the need to have copied the President-elects, when known.

Many Societies have not yet responded to our request. In several other cases, the Publications Chair nominated himself as Liaison to the Press. In either case, the Press has not established a strong link with a person committed to better books for Members and the desire to explore the many options for establishing a meaningful book publishing program.

To help stimulate some action, several items are enclosed here:

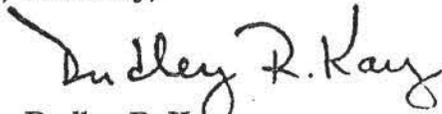
- * a brochure describing Today's IEEE Press
- * a set of the overhead masters used at AdCom meetings to present the Press's link to Societies and role of the Liaison
- * a royalty schedule laying out the financial incentives for both authors and sponsoring Societies for several types of books
- * update on the Societies with an appointed Liaison and those without one specifically designated
- * Examples of ² two reports recently generated by Society Liaisons to the Press

Society Presidents
Society Publications Chair
4-15-91
page 2

A list of published books that were sponsored by your Society and their sales history is being prepared. Also, we will advise of the books in progress or under consideration if you will tell us to whom they should be sent. Finally, we are issuing Press royalty summary reports to each Society since it has been brought to our attention that Press royalties are rather difficult to find on the annual financial reports from IEEE.

We are happy to answer your questions and address your concerns. Please give us the opportunity.

Sincerely,



Dudley R. Kay
Executive Editor
IEEE PRESS

enclosures

C:K287.dk

Immediate Press Objectives

① Rapid expansion of the book publishing program

- ✱ Sr./Graduate Texts and References
- ✱ State-of-the-Art Monographs
- ✱ Guides, Manuals, Handbooks for Industry
- ✱ Tutorials - Foundational books
- ✱ Selected Reprint Books (with quality standards)
- ✱ Edited Conference Papers (Value-added versions)

② Closer and Better Ties to the Societies

- ✱ Clearer definitions of the "sponsorship" role
- ✱ Helping identify books wanted/needed by Members
- ✱ Cooperative effort to attract authors/editors
- ✱ In-depth, time-sensitive, written reviews
- ✱ Partnership in marketing books to Members
- ✱ Sharing the rewards of a successful book

The Press and Societies: Partnership

Proposed that:

- * A Society Liaison to the Press be appointed by each participating Society (min. 2 yr. apptment.)
- * Series Editors be solicited, nominated, and confirmed for "clusters" of books on a major topic of interest
- * Every book project be technically reviewed by 2-3 Society-selected technical experts (written reviews)
- * All Selected Reprint books and edited conference books must be sponsored by the Society
- * Market planning of Society-sponsored books be a coordinated effort; input required prior to publication

Society Liaison to Press

Roles and Responsibilities

- * Expedites reviews of book proposals and manuscripts through Society technical experts on the subject to validate Yes - No Sponsorship decision

- * Coordinates nomination of book subjects desired by the Society and its Technical Committees (A "Books Wanted" List)

- * Nominates Series Editor Candidates via solicitation, recommendations, and networking with colleagues

- * Facilitates promotion and publicity of sponsored books to the Society membership via magazine editor, book review editor, conference chairs, newsletter editor, etc. and helps identify target mailing lists

- * Serves as Associate Member of the Press Editorial Board: critique policies and procedures, pose recommendations, attend meetings when possible, interface with Press Board Members with similar interests

Society Sponsorship

Proposed that "Sponsorship" entail:

- ① Book proposals reviewed by 2-3 Society-selected technical experts; written comments summarized or submitted in whole to the Press
- ② Accepted manuscripts reviewed by 2-3 Society-selected technical experts, comments going to the Press and Author. Reviewer names to be cited in the book as validation of Society evaluation and endorsement.
- ③ Published books actively marketed to the membership:

Magazine Ads

Prompt Book Reviews

Availability at Conferences/Workshops/Seminars

Assistance in selecting T.I.P. mailing lists

Identification of sister societies, other prospects

When needed, help with identifying book's features

Additional assistance as needed

Society Rewards

Press will/can pay for detailed written reviews as advance against royalty; payments to the individual or Society as desired

Press to offer special discounts to the Sponsoring Society - 40% off List at Conferences or special ad in Society publications

Press willing to sell large quantities of books (500 +) to Societies at greater discount (50% off List)

Press will exhibit, or arrange for exhibit, of sponsored, related, and general books at special discount at cooperating Society conferences

Society royalty rates raised be 1% on first \$50,000 sales, 2% on next \$50,000 sales, and 3% on next \$100,000 and 5% thereafter - for cooperating Societies only (Average royalty \$2000-3000)

Portion of author's or Series Editor's royalties may be channeled to the Sponsoring Society by prior arrangement.

(Option) Higher royalties payable if Society elects to underwrite portion of book development and production costs (Share Risk - Share Reward).

Robert J. Marks II Library Archive
PRESS ROYALTY SCHEDULES

Selected Reprint Books Sponsored by an IEEE Society

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor</u>	<u>Total</u>
First \$50,000	4.0%	1.0%	5.0%
Next \$50,000	8.0%	2.0%	10.0%
Next \$100,000	12.0%	3.0%	15.0%
All over \$200,000	15.0%	5.0%	20.0%

Original Monographs Proposed by an Author

A. For books of narrow scope and limited market, the standard royalty is a flat 10%

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor*</u>	<u>Total</u>
First \$50,000	10.0%	1.0%	11.0%
Next \$50,000	10.0%	2.0%	12.0%
Next \$100,000	10.0%	3.0%	13.0%
All over \$200,000	10.0%	5.0%	15.0%

B. For books with multiple markets and above-average sales potential, there is an escalating royalty.

<u>Sales</u>	<u>Author/Editor</u>	<u>Sponsor*</u>	<u>Total</u>
First \$50,000	10.0%	1.0%	11.0%
Next \$50,000	12.5%	2.0%	14.5%
Next \$100,000	15.0%	3.0%	18.0%
All over \$200,000	18.0%	5.0%	23.0%

Original Monographs Initiated by a Sponsor

<u>Sales</u>	<u>Total</u>	<u>Sponsor</u>	<u>Author</u>
First \$50,000	11.0%		
Next \$50,000	14.5%	Royalty division as agreed between the Author and Sponsor.	
Next \$100,000	18.0%		
All over \$200,000	23.0%		

Original Monographs in an Approved Series

<u>Sales</u>	<u>Author</u>	<u>Series Editor</u>	<u>Sponsor</u>
First \$50,000	10.0%	2.0%	1.0%
Next \$50,000	12.5%	2.0%	3.0%
All Over \$100,000	15.0%	2.0%	5.0%

ROYALTY DIVISION: These royalty percentages are recommended. By prior arrangement between the author and the sponsor, the royalty percentages may equal any division of the Total.

SPONSORSHIP: Percentages shown are for a "FULL Commitment" to the development and promotion of the book. This entails three written reviews at the proposal and final manuscript draft stages, advice on the promotion of the book to the intended audience, and assistance in direct promotion of the book to its Members. Should the sponsoring Society be unwilling or able to provide this book support, Sponsor royalties will be at the rate of 1% of sales. Sponsorship of author-initiated books will be at the option of the Author and the Press. an IEEE entity is at the option of the author.

Society Liaisons to IEEE Press
 As of 4/1/91

<u>DIV</u>	<u>Abbrev.</u>	<u>LIAISON TO PRESS</u>	<u>PUB CHMN</u>	<u>PRES</u>
1	CAS	Unknown/Unclear	R.L. Geiger	R. Schaumann
	CHMT	Paul Wesling	P.B. Wesling	R.W. Gedney
	ED	Dexter Johnson	W.D. Johnson	L. M. Terman
	LEO	Peter W. Smith	P.F. Moulton	C.R. Giuliano
	SSC	Engeti Murthi	Harry Mussman	R. C. Jaeger
10	CS	Joe Chow	J.H. Chow	W.S. Levine
	EMB	Charlie Robinson	R.A. Plonsey	C.J. Robinson
	IE		R.C. Born	R.A. Begun
	IT		B.E. Hajek	H.V. Poor
	NN	Stam Kartolopoulos	M. Caudill	R.J. Marks II
	RA		R.B. Kelley	Arthur C. Sanderson
	SMC	M. G. Singh	M.G. Singh	J.M. Tien
2	DEI		R. Hackam	G.C. Stone
	IA	Michael J. Foley	M.J. Foley	L.J. Jacovides
	IM	Bob Myers	J.R. Ashley	M.S.P. Lucas
	PEL	Harry Owen, Sr.	J.J. Skiles	P.A. Thollot
3	BT			R.H. Justus
	CE	W. C. Luplow	W.C. Luplow	W.S. Ciciora
	COM	Awaiting Confirm.	S.D. Personick	R.L. Pickholtz
	VT		J.R. Cruz	G.F. McClure
4	AP	Wilson Pearson	W.K. Kahn	D.C. Chang
	EMC	Bob Haislmaier	R. J. Haislmaier	E.L. Bronaugh
	MAG		C.E. Patton	R.M. Josephs
	MTT	K. K. Agarwal	M.V. Schneider	T. Itoh
	NPS		R.F. Shea	R.S. Larsen
5, 8	C	Dr. Barry Johnson	Barry Johnson	H.M. Wood
6	E		F.S. Barnes	J.D. Irwin
	EM		R.L. Seaman	A. Cavanagh
	PC	Ronald S. Blicq	Joan Nagle	R.J. Joenk
	R		P. Gottfried	B.A. Bang
	SIT			N. Balabanian
7	PE	Bob Dent	R.A. Dent	H.N. Scherer Jr.
9	AES	Cary A. Spitzer	C.R. Spitzer	J.D. Engelland
	GRS			J.A. Reagan
	OE		G.N. Williams	G.N. Williams
	SP	M. H. Hayes	M.H. Hayes	J.G. Ackenhusen
	UFFC		W.D. O'Brien Jr.	Jan Brown

REVIEW OF DAVID BEER'S IEEE PRESS BOOK
WRITING AND SPEAKING IN THE TECHNOLOGY PROFESSIONS:
A PRACTICAL ANTHOLOGY

MEMORANDUM

TO: _____
FROM: Ron Blicq (IEEE Press/PCS Liaison)
DATE: February 6, 1991
REF: Pre-publication Review of Beer Manuscript

Please cast your experienced eyes over the attached manuscript and pass comments to the IEEE Press on its suitability in its present form for publication as a PCS-sponsored book. This will be a straightforward review since you are looking only at David's introductory remarks to the book as a whole, to each section, and to each paper or article. In particular consider:

- o The suitability of the language for the intended audience (in this case, the IEEE membership as a whole, and for practicing engineers in other disciplines).
- o The content within the introductions: will it appeal to readers and encourage them to "dip into the text?"
- o The depth of the introductions (has he provided enough/too much/too little information?)
- o Whether, overall, you feel the introductions are satisfactory for a book of reprint articles.

Include any other comments you would like to add, and then send your review to:

Dudley Kay
Managing Editor
IEEE Press
445 Hoes Lane
Piscataway, NJ 08855-1331
Fax: (201) 981 0027

Would you mind getting your review into the mail to Dudley by February 15? (There's some urgency because Dudley wants to get the book into print by August.) Thanks.

THE PROFESSIONAL COMMUNICATION SOCIETY

RECEIVED FEB 12 1991

of the

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC

MEMORANDUM

TO: Dudley Kay, Managing Editor, IEEE Press
FROM: Ron Blicq, PCS Liaison Rep
DATE: February 11, 1991
REF: Report on IEEE Press Discussions at PCS Feb 8 AdCom Meeting

Dudley --

At its February 8 meeting the PCS Administrative Committee:

1. Decided not to develop the proposed McKown book (McKown concurs).
2. Decided not to reprint the Harkins/Plung book, or to go for a 2nd Edn (at Plung's suggestion -- I could not contact Harkins).
3. Decided that a book on personal finances did not fall within PCS's mandate/bailiwick.
4. Brainstormed ideas for new book topics, and will later prioritize them. (I already have an author tentatively lined up for one: "Grammar and Style for Engineers" [a very rough working title].)
5. Recognized there will be a delay in Hill/Whalen submitting their MS (apparently the authors cannot agree on the content).
6. Agreed to research a PCS "Series" title (I will ask for suggestions in a short article in the PCS Newsletter).

Additionally, I:

7. Asked for, and obtained, 3 reviewers for Beer's MS, all of whom agreed to submit their reviews to you by Feb 15. They are Herb Michaelson, Kimberly Manthy and Cheryl Reimold. (A copy of the review instructions is attached.)
8. Asked for, and obtained, 3 evaluators for *Helping Researchers Write ... So Managers Can Understand*. They are Rudy Joenk, Michael Goodman, and George Martin, and they will send their comments here, for me to consolidate and forward to you.
9. Have placed a "request for reviewers in the March PCS Newsletter, for the Woelfle 2/e and Hill/Whalen manuscripts.

I trust this information will help "keep you in the picture."

cc Rudy Joenk, PCS President



IEEE

TRANSACTIONS ON AEROSPACE AND ELECTRONICS SYSTEMS



R. J. Purdy
Editor for Radar

2 May 1991

PLEASE REPLY TO:
MIT Lincoln Laboratory
P.O. Box 73
Lexington, MA 02173 USA
(617) 981-2999

Prof. Robert J. Marks
University of Washington
Department of Electrical Engineering
Seattle, WA 98195

Dear Prof. Marks:

I am currently updating my list of qualified reviewers for the IEEE's Transactions on Aerospace and Electronics Systems (Radar) and since you have provided valuable and conscientious reviews in the past, I hope that you will agree to continue providing this essential service to the IEEE.

So that I may better match authors and reviewers, I have included a list which delineates some of those topics which I feel are appropriate for publication by the AES. I would appreciate it if you would indicate those areas of technical expertise which you feel qualified to review, as well as provide an update for address, telephone number, and Fax number. If an area of expertise for which you feel qualified is not on the list, please so indicate in the "other" category. (The list is only intended to be a guide.) Please also indicate if you have published work in the AES Transactions or elsewhere which will help me identify your areas of technical expertise. This will allow me to send you only papers relevant to your interests. (Recent publications are not a prerequisite for providing reviews. If available, they simply allow me to appreciate your areas of research.) Any recommendations that you would care to make concerning interested and qualified colleagues would also be helpful. Your cooperation in providing this information will help me and the IEEE considerably.

I sincerely thank you for your help in the past. Conscientious and timely reviews are fundamental to the peer review process and are essential for an editor. Your support is greatly appreciated. If you have questions, would like to discuss your interests in more detail, or would like to express concerns for the AES, please feel free to contact me.

Very truly yours,

A handwritten signature in black ink, appearing to read 'R. J. Purdy'.

Robert J. Purdy
Editor for Radar

Enclosures

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS

Date 5/8/91

REVIEWER INFORMATION

NAME: Prof. Robert J. Marks II
Title

ADDRESS: University of Washington
Department of Electrical Engineering, FT-10
Seattle, Washington 98195

TEL: (206) 543-6990

FAX: (206) 543-3842

AREAS OF TECHNICAL INTEREST:

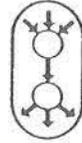
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS
REVIEWER'S AREAS OF EXPERTISE

Name: Prof. Robert J. Marks II

Date: 5/8/91

Radar Systems
Air Traffic Control
Airborne
Beacon
Bistatic/Multistatic
Distributed
Impulse Radars
ISAR
Laser
Marine
Over-the-Horizon
Phased Arrays
Radar Astronomy
Space Based
Surveillance
Synthetic Aperture(SAR)
Weather
Antennas
Electronically Scanned
Mechanically Scanned
Transmitters
Solid State
Vacuum Tube
Propagation
Ducting
Multipath
Instrumentation
Displays
Adaptive Theory and Systems
Beam Forming
Nulling
Sidelobe Cancellers
Detection
Theory
Stochastic Processes
Sequential
CFAR
Integration Techniques
MTD/MTI
Variable Targets
Signal Processing
Adaptive Processing
Ambiguity Function Analysis
Analog
A/D Converters
Digital
Pulse Doppler
Signal Design
Filtering
Filter Design
Transform Theory
Clutter Rejection
Optical Processing

Tracking
Kalman Filtering
Monopulse
Multi-Target
Track-while-Scan
Radar Output Analysis
Resolution and Accuracy
Parameter Estimation
Range-Doppler Imaging
Image Analysis
Image Enhancement
Target Recognition
Data Processing
Architectures
Computational Performance
Fault Tol./Graceful Degradation
Neural Nets
Target Characteristics
Bistatic
Calibration
Distributed/Extended Targets
Point Targets
Polarimetric
Clutter Characteristics
Auroral
Birds
Bistatic
Chaff
Land
Rain
Sea
Technology
Custom Components
Phase Shifters
Processing Components
T/R Modules
Transmitter Components
ECM/ECCM
Other



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-7-91

Neural Networks Council Mail Ballot

Dear NNC AdCom Members,

On behalf of the NNC's Awards Committee and its Chair, Brad Dickinson, I present the following motion for your consideration. Please respond within the week with a written, e-mail or FAX response to the motion.

Background: The Council has approved the Pioneer Award for neural networks researchers who have made their main contributions to the field fifteen years ago or earlier. No more than three of these awards may be given each year. A solicitation for nominations and documentation was made in the *IEEE Transactions on Neural Networks* by Dr. Dickinson. The Committee has arrived at recommendations for three awardees for this year based on submitted nominations. These recommendations must be approved by a majority vote of AdCom.

Motion: The AdCom of the *IEEE Neural Networks Council* hereby approves the recommendation of the NNC Awards Committee to present the Council's *Pioneer Award* to the following eminent neural networks researchers (listed alphabetically):

Stephen A. Grossberg

Teuvo Kohonen

Bernard Widrow.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 1, 1991

Dr. Edgar Sanchez-Sinencio
Dept. of Electrical Engineering
Texas A & M University
College Station, Texas 77843

Dear Dr. Sanchez-Sinencio:

Enclosed are six copies of an extended abstract of a paper we wish considered for the special hardware issue of the IEEE Transactions on Neural Networks. Please address correspondence concerning the paper to Don Wunsch.

We look forward to your response.

Sincerely,

Robert J. Marks II
Professor

Enclosures

File

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

COPY

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 1, 1991

Russell Eberhart
JHU Applied Physics Laboratory
Johns Hopkins Road
Laurel, MD 20723

Russ,

Here is the material to copy. Four things:

1. Insert your material on the emulator where the first yellow tab is. The material on implementation goes where the second yellow tab is.
2. I suggest the colored dividers be kept in the copies.
3. I suggest the first page also be used for the cover of the notes.
4. Could you make one unbound copy for me?

Best regards,

Robert J. Marks II
Professor

File

May 1, 1991

Dr. Ron Lumia
Metrology Building, Room B-124
NIST
Gaithersburg, MD 20899

Dear Dr.Lumia:

Thank you for your submission to the Singapore IJCNN. I have forwarded your paper for review to

Nomi Feldman
Conference Coordinator
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, California 92121

Sincerely,

Robert J. Marks II, USA Liaison
'91 Singapore IJCNN

cc: Nomi Feldman

file



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

April 16, 1991

Dr. Robert J. Marks II
University of Washington
Department of Electrical Engineering
Seattle, Washington 98195

Dear Dr. Marks:

Enclosed you will find an original and 7 copies of the manuscript entitled, "Adaptive Inertia Compensation Using a Cerebellar Model Algorithm," for publication in IJCNN '91 Singapore Conference November 18-21, 1991.

As requested in the call for papers, I am including the following information:

Corresponding Author: Dr. Ron Lumia
Metrology Bldg., Room B-124
NIST
Gaithersburg, MD 20899
U.S.A.

Telephone: 301-975-3452
FAX: 301-990-9688

Presentation preferred: Oral

Technical Session:
First Choice: Sensorimotor Control Systems
Second Choice: Robotics Control

Presenter: same as corresponding author

Please feel free to contact me if any additional information is required.

Best Regards,

Dr. Ronald Lumia
Group Leader, Intelligent Controls Group

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 1, 1991

Dr. Atif Debs
One Buckhead Plaza, Suite 1410
3060 Peachtree Road NW
Atlanta, Georgia 30305

Dear Dr. Debs:

Enclosed is a chapter that the copy center neglected to copy for the NN short course in Monaco.

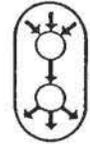
Please call if you have any questions about this. 206-543-6061

Sincerely,



Ruth A. Wagner
Secretary to Prof. Marks

Enclosure



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

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Seattle, WA 98195 USA
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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 1, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, California 92128

Dear Pat:

I hereby authorize support of Dr. Newcomb's travel to the Seattle NNC AdCom meeting in July.
Please advance Dr. Newcomb \$1,000 in Council funds to cover these costs.

Sincerely,

A handwritten signature in cursive that reads 'Bob' with a small 'II' at the end.

Robert J. Marks II, President
Neural Networks Council

cc: Robert Newcomb

✓ file

Microsystems Laboratory
Electrical Engineering Department
University of Maryland
College Park, Maryland 20742
Phone: (301) 405-3662
email: newcomb@sparcee.eng.umd.edu
fax: (301) 314-9281

April 18, 1991

Professor Robert J. Marks II
President, IEEE Council on Neural Networks
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Bob:

This is to request travel funds for attending the NNC AdCom meeting Sunday and Monday, July 7-8, 1991, in Seattle (as per my previous email request). I have no other funds available to attend this meeting.

As soon as I know of the possibility, I can obtain a more exact cost estimate, but roughly I believe that it should about the same as it was for San Diego which was \$1,113. I will travel direct at the lowest rate, for Saturday arrival (or Friday if cheaper) and Tuesday departure.

Thanks for your continued consideration.

Best Regards,



Robert W. Newcomb
Professor

RN/lc

cc: Dr. Patrick K Simpson, NNC Treasurer

Applied Physics Laboratory



Robert J. Marks II
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle WA 98185

April 15, 1991

Dear Dr. Marks,

I am honored to have been nominated and accepted into membership of The IEEE Committee on Man and Radiation. I am writing to request IEEE NNC support to enable me to participate in the next COMAR meeting which will be held in Salt Lake City in conjunction with the Bioelectromagnetics Society (BEMS) meeting. I do not presently have any support for travel to BEMS.

The super-saver fare is \$438.00, with the restriction that I stay over Saturday night (regular round-trip air fare is \$992.00). This would involve my arrival on Saturday June 22, and departure on Friday, June 28 (6 nights stay). Since the BEMS meeting begins on Sunday, June 22, and ends on Thursday, June 27, I would be able to participate in the BEMS activities as well. The hotel rate is \$60 + \$6.21 tax. Registration for the BEMS meeting is \$170.00 when registering before May 24. The super-saver fare requires 30 days advance booking.

Thank you for your consideration of this request.

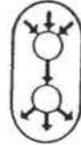
Sincerely

Handwritten signature of J. Patrick Reilly in cursive script.
J. Patrick Reilly

cc: R. C. Eberhart
P. K. Simpson



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 2, 1991

Dudley Kay, Executive Editor
IEEE Press
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Dudley:

Enclosed is a review of Fountains of Neural Networks edited by Clifford Lau.

Sincerely,

A handwritten signature in cursive script, appearing to read 'R. Marks II'.

Robert J. Marks, President
Neural Networks Council

Enclosure

Review of "Foundations of Neural Networks", edited by Clifford Lau.

This will be a well received book. It is the first of its kind aimed at the engineer.

Comments:

There are some errors in Lippman's tutorial (which is probably the most widely referenced of modern neural network papers). He shows, for example, convex region capability in the layered perceptron. This is true if the sigmoids are step functions. If they are soft nonlinearities, then non-convex regions can be generated.

The papers in the special IEEE issues of the Proceedings were quite good, and reflect quite well the current thrust of neural research.

The '82 paper by Hopfield was indeed a turning point in interest in neural networks, but, for engineering applications, it performs terribly. The same is true of ART1. These papers should probably be included for reasons of inertia, but some statement of the worth of the models should be made. Presenting them as cornerstones of neural models is unfair. When subjected to the tests of performance, the stones crumbled.

On Lau's introduction, I have never seen the word 'neuronal' used. Indeed, the word is not in my version of Webster's dictionary. I suggest this be removed. The sentence that begins "In the first paper..." in the description of Section V, I suggest a reworking of the English.

I think this will be a wonderful book, well received by the members of IEEE.

*Ruth,
1 copy of everything
to me.
Mail original
to Dudley Kay.
- Bob -*

Preface

For any research field to have credibility, there must be a firm theoretical foundation. Neural networks research is no exception. This book is intended to provide that firm theoretical and mathematical foundation necessary for the continued growth of research and development in neural networks.

Neural networks have enjoyed a revival after some twenty years of hibernation. In the last five years, over three thousand papers have been published on neural networks and related fields. Over twenty new books have been published in the last five years. New researchers are entering neural networks every day. There are now well attended international conferences on neural networks. Several new journals and transactions on neural networks have been introduced in this rapidly growing field. These journal papers are a great source of information on the latest research results. Yet there is a need to put in one place all the foundational mathematical theories on neural networks for study and easy reference.

This book consists of the excellent papers published in the two IEEE Proceedings special issues on neural networks (September and October 1990), which are supplemented by several classic papers in neural networks. The book is divided into six parts. In the *I. Introduction*, a very readable paper by R. Lippmann has been included for an easy introduction to neural networks and its terminologies. In *II. Analytical Foundations*, the papers provide the analytical foundations for the rest of the book. In *III. Neural Modeling*, several papers of extreme significance have also been included, including the paper on synthetic neural modeling. The paper by J. Hopfield is a landmark in the revival of neural networks, and has generated a large group of imitators. The papers by S. Grossberg are added to lay the foundation for a popular neural network called Adaptive Resonance Theory nets. In *IV. Mathematical Foundations*, a paper by K. Fukushima on the Neocognitron has been added to the collection of papers. In *V. Related Techniques*, comparisons are made between neural networks and traditional statistically based techniques. Finally in *VI. Applications*, two examples of how neural networks can be applied to engineering problems are presented.

This book covers all aspects of mathematical theories that are necessary to understand and the many different neural network architectures. It can be used as a text for advanced students with certain amount of mathematical maturity, or it can be used as a reference book for scientists and engineers interested in the mathematical foundations of neural networks.

I would like to thank the many contributors to this book for their outstanding papers. I also thank the IEEE Proceedings executive editor, W. Reed Crone, and his staff for putting together two excellent special issues on neural networks. Foremost I want to thank the IEEE Press managing editor, Dudley Kay, for his assistance and to thank my associate editor, Anne Reifsnyder, for her editorial help.

Clifford G. Lau

I. Introduction

The term neural network, or more properly neuronal network, originally refers to a network of interconnected neurons. The human nervous system is anatomically subdivided into the central nervous system, which comprises the brain and spinal cord, and the peripheral nervous system, which comprises the cranial and spinal nerves. The brain is subdivided into five major anatomical units called the cerebrum (or cortex), cerebellum, midbrain, pons, and medulla. Functionally the brain can be subdivided into smaller parts, such as the motor cortex, visual cortex, auditory cortex, hippocampus, and various nuclei groups in the brain stem. The average human brain consists of 1.5×10^{10} neurons of various types, with each neuron receiving signals through as many as 10^4 synapses. With that kind of complexity, it is no wonder that the human brain is considered to be the most complex piece of biological machinery on earth. Fortunately, after years of research by neuroanatomists and neurophysiologists, the understanding of the brain has progressed to a point such that the overall organization is well understood, although many of the detailed neural mechanisms remain to be elucidated. Some parts of the brain are better understood than others. The cerebellum, for example, is better understood than the neocortex, because of its isolated and identifiable input, output, and internal circuitry with climbing fibers, mossy fibers, and purkinje cells.

In order to try to understand brain function, various models have been proposed. Probably the best known was the work of Hodgkin and Huxley on modeling of the giant squid axon. They methodically collected empirical data, postulated the mechanism of ion transport channels, formulated mathematical and circuit models, and then developed the voltage clamped technique to validate their models. Certainly modeling work done by many others, such as Von Bekesy's cochlear microphonics work, can be cited as contributing to the understanding of brain function. For example, the discovery of special feature detecting cells in the visual cortex by Hubel and Wiesel has had a profound impact on the understanding of information processing in the visual system, and on the field of pattern recognition.

We are dealing with the ultimate question, how does the brain work? Neurobiologists have taken the bottom-up approach by studying the stimulus-response characteristics of single neurons and networks of neurons. On the other hand, psychologists have taken the top-down approach by studying brain function from the cognitive and behavioral level. They are gradually and incrementally getting a better idea of how the brain works, both at the single neuron level and at the behavioral level. However, it may take another 50 years before we have a solid, complete microscopic, intermediate, and macroscopic view of how the brain works. Engineers can't wait that long. We must design computational apparatus to solve practical problems. We seek solutions to problems that are difficult with today's digital computing technology, problems that are easily solved by people and animals. Therefore we keep one eye on the brain studies, and the other eye on making use of available models and paradigms, and possibly developing new ones. We try to build more brain-like computers out of neuron-like parts.

It was this view that led to the development of many of the earlier models of neurons and neural networks. McCulloch and Pitts in the 1940's showed that the

neuron can be modeled as a simple threshold device to perform logic function. In the same time frame, relationships between engineering principles, feedback, and brain function, were expounded by Wiener as the principle of cybernetics. Ashby's model of brain function and principle of homeostasis strongly influenced engineering and vice versa. By the late 1950's and early 1960's, neuron models were further refined into Rosenblatt's Perceptron, Widrow and Hoff's Adaline (ADaptive LINear Element), and Steinbuch's Learning Matrix. The Perceptron received considerable excitement when it was first introduced because of its conceptual simplicity. However, that excitement was short lived when Minsky and Papert proved mathematically that the Perceptron cannot be used for complex logic functions. On the other hand, the fate of Adaline was quite different. The Adaline is a weighted sum of the inputs, together with a least mean square (LMS) algorithm to adjust the weights to minimize the difference between the output and the desired signal. Because of its linear and adaptive nature, the technique has developed into a powerful tool for adaptive signal processing, which is used in equalization, echo and noise cancellation, adaptive beam forming, and adaptive control. The reason is primarily due to the rigorous mathematical foundation of the LMS algorithm. Because of that, it has stood the test of time.

Today the term neural network, or more properly artificial neural network, has come to mean any computing architecture that consists of massively parallel interconnection of simple "neural" processors. The motivation comes mainly from the fact that humans are much better at pattern recognition than digital computers. The brain has taken millions of years to evolve into its present architecture, and has become the most efficient machine in vision processing and speech recognition. Therefore there must be computational principles that the brain uses to accomplish such high speed pattern recognition. Our job is to understand these computational principles, and put them to good use in the design of practical systems.

The present impetus in neural network research is due in part to the paper John Hopfield published in 1982 in the Proceedings of the National Academy of Sciences and reprinted in this book. In this paper, he presented a model of neural computation that is based on the interaction of neurons. The model consisted of a set of first order (nonlinear) differential equations that minimize a certain "energy" function. He argued that there are emergent computational capabilities at the network level that are nonexistent at the single neuron level. This kind of neural network is now known as a Hopfield net.

Certainly Hopfield was not the first to recognize the neuron's spatial and temporal integration properties, which were known in the very early days of neurophysiology. Furthermore, the idea that neurons organize themselves to perform the necessary functions was promoted by a number of researchers. During the 1970's when nobody else was working on neural networks, Steven Grossberg at Boston University and Teuvo Kohonen at Helsinki University were making significant contributions. Grossberg, together with Gail Carpenter, have developed a neural network architecture they call Adaptive Resonance Theory (ART), based on the idea that the brain spontaneously organizes itself into recognition codes. The dynamics of the network were also modeled by first order differential equations. Meanwhile, Kohonen was developing his ideas on self-organizing maps, based on the idea that neurons organize themselves to tune to various and specific patterns. In the early 1970's, Paul

Werbos discovered the mathematical principles of the backpropagation algorithm while studying problems in the social sciences. In the mid 1980's, David Rumelhart and his colleagues published their landmark books on parallel distributed processing, establishing the backpropagation algorithm and feedforward layered network as the major paradigm of the field. This work and the earlier works have finally galvanized a large segment of the scientific community into thinking in terms of collective neural computation rather than single neurons.

Although neural networks can serve to further the understanding of brain functions, engineers are interested in neural networks for problem solving. As an engineering technique, neural networks have their own set of advantages, disadvantages, and assumptions. The natural question is, what can neural networks do that traditional signal processing techniques cannot do? Certainly speed of computation is a factor. In traditional single processor Von Neumann computers, the speed is limited by the propagation delay of the transistors. Neural networks, on the other hand, because of their massively parallel nature, can perform computations at a much higher rate. Because of their adaptive nature, neural networks can adapt to changes in the data and learn the characteristics of input signals. Furthermore, because of their nonlinear nature, neural networks can perform functional approximation and signal filtering operations which are beyond optimal linear techniques. Neural networks can be used in pattern classification by defining nonlinear regions in the feature space.

In the realm of engineering, no single technique is a panacea, and neural networks are no exceptions. They have their limitations. The nonlinear sigmoidal functions used in layered networks cause multiple minimums to appear during learning, and one is never sure whether the system has reached its global minimum. Stochastic techniques, such as "simulated annealing", can help the situation, but often require excessive computation time. As in adaptive signal processing, there is always a tradeoff between the speed and the stability of convergence. Digital computer simulations of neural nets are still too slow for practical use in large scale problems.

What are the research and development issues? Certainly there is a need to further investigate and understand brain information processing. From these investigations, many new neural network architectures will be invented. There is a need to develop techniques to extend these networks to reasonably large scale to solve real-world problems. Mathematically it is necessary to understand the nonlinear dynamics of these networks, and to develop new algorithms that are fast, robust in the presence of noise, and stable and that guarantee to converge to the global minimum. Certainly, there is a need to develop the analog/digital and optics technology to implement these unconventional computing architectures. In terms of applications to engineering problems, there is a need to develop good mathematical theories to explain the experimental results. In engineering, it is necessary to develop quantitative techniques to evaluate neural network's performance with real-world data. The performance of neural networks must be compared, objectively and quantitatively, with traditional signal processing techniques. Rigorous mathematical foundations must be developed to determine the characteristics of the training set and the network's ability to generalize from the training data.

This book is expressly put together to build the foundations to address these research and development issues. It is intended for the scientists and engineers with a certain amount of mathematical maturity who wants to make a contribution to neural network research and development. The book is organized into six sections, with emphasis on mathematical rigor and theoretical analysis. In this section *I. Introduction*, the paper by R. Lippmann is a very readable introduction to the subject of neural networks for the beginning reader. It provides a brief introduction to the theory of multilayered nets and then explains some examples of applications to signal processing.

In section *II. Theoretical Foundations*, the first paper by B. Widrow and M Lehr outlines the historical perspective of 30 years of adaptive signal processing and neural network development. It develops the basic theory of several neural network training algorithms, including the Perceptron rule, the Least Mean Square (LMS) technique, the backpropagation algorithm, and the latest Madaline learning rule. It is a "must-read" for anyone who plans to do research in multilayered neural nets. The second paper, by S. Amari, describes the mathematical foundations for neurocomputing. It considers the capabilities and limitations in mathematical terms of the various neurocomputing architectures. It develops the general theory of transformation by layered networks, statistical neurodynamics, associative memory, and neural learning. The third paper, by T. Kohonen, is a tutorial on self-organizing brain maps. The fourth paper, by T. Poggio and F. Girosi, describes the mathematical foundations of neural networks for approximation and learning. The authors review for the reader the theoretical framework for approximation based on regularization networks that are mathematically related to the well known Radial Basis Functions.

In section *III. Neural Modeling*, the papers provide the motivation for studying neural networks, which is to develop models of the brain and to understand the computational principles of brain information processing. The paper by G. Reeke, O. Sporns, and G. Edelman provides a good description of their continuing effort to develop the "Darwin" neural networks. Their synthetic neural modeling effort is intended to aid the understanding of the neuronal basis of adaptive behavior, and it takes into account possible evolutionary origins and modes of development of the nervous system. The paper by J. Hopfield is a milestone in the annals of neural network research and motivates a new generation of researchers to look at a network of neurons in a different light. The two papers by S. Grossberg, in which he models the adaptive behaviors in pattern recognition, form the basis of his neural network called Adaptive Resonance Theory (ART).

Section *IV. Mathematical Analysis*, contains the largest group of nine papers, which form the basis of much of the research work that is going on in neural networks. The first paper by P. Werbos, introduces the element of time into the popular backpropagation learning algorithm, which originally is static. The second paper by K. Fukushima explains the Neocognitron model of neural networks. The third paper by W. Miller III, F. Glanz, and L. Kraft, III, describes the well known Cerebellar Model Arithmetic Computer (CMAC) as an alternative to the backpropagation algorithm. Although most of the research has been centered on deterministic networks, the next paper by E. Levin, N. Tishby, and S. Solla, describes a general statistical approach to the problem of learning from examples. By imposing the equivalence of minimum

error and the maximum likelihood criteria, they arrive at the Gibbs distribution on the ensemble of networks with a fixed architecture. The next paper by J. Bruck is centered on the convergence properties of the popular Hopfield net. The paper by L. Jones further expands on the technique of constructive approximation by sigmoidal functions. The next two papers, the one by G. J. Gibson and C. N. F. Cowan and the one by O. J. Murphy, are centered on the analysis of multilayer Perceptrons as pattern classifiers. The final paper in this group by J. Shynk and S. Roy, demonstrates that the LMS algorithm with a momentum term is always stable if the momentum constant is appropriately chosen. However, the stationary points are not unique but dependent on algorithm step size.

Section V. *Related Techniques*, contains three papers on conventional techniques that are related to neural networks. In the first paper by I. Sethi, he discusses the relationship between multilayered neural nets and decision tree classifiers. The next paper, by L. Atlas, R. Cole, D. Park, M. El-Sharkawi, and R. Marks, II, presents a performance comparison of trained multilayer Perceptron network and classification trees. They show that in almost all cases, the multilayer Perceptron network performs as well as or sometimes better than the trained classification tree, even for piecewise linear trees. The third paper in this group, by E. Yair and A. Gersho, shows that maximum a posteriori classifiers are constructed as a special case of the Boltzmann Perceptron Classifier (BPC). The authors further show, by simulation, that the BPC is comparable in performance to the classical Bayesian classifier although no assumptions are made on the probabilistic models of the problem.

In the final section, VI. *Applications*, two examples of neural network applications are presented. Applications in this field are beginning to emerge and are an important part of the research. The first paper, by J. Anderson, M. Gately, P. Andrew Penz, and D. Collins, shows that neural networks can be used in radar signal categorization and emitter identification. The second paper, by B. Yuhas, M. Goldstein, Jr., T. Sejnowski, and R. Jenkins, demonstrates that neural network models can be used to integrate the visual and auditory cues for improved vowel recognition. Numerous other application papers on speech recognition, image processing, and pattern recognition can be found in the new journals and transactions on neural networks. Hopefully this book provides much of the theoretical basis so that new application areas can be thought up by the readers.



Clifford G. Y. Lau (Senior Member, IEEE) received the B.S. and M.S. degrees from the University of California at Berkeley, and the Ph.D. degree from the University of California at Santa Barbara in 1978, all in electrical engineering and computer science.

Prior to 1978, he was employed as an electronics engineer at the Pacific Missile Test Center, Point Mugu, and worked on electronic countermeasure techniques, missile navigation, guidance, and control. From 1978 to 1980, he was on the faculty of the Division of Head and Neck Surgery, University of California at Los Angeles, and did research on the vestibular and oculomotor systems. From 1980 to 1988 he was with the ONR Western Regional Office, and was involved in microelectronic circuits, VLSI systems, and signal processing. He was the chairman of the Design, Architecture, Software, and Testing Committee for the DoD Very High Speed Integrated Circuits program. He has published technical papers on a wide range of topics, including equivalent networks, control system instability, wafer scale integration, VLSI reliability, vestibulo-ocular system models, and neural networks.

Dr. Lau is presently a Scientific Officer at the Electronics Division, Office of Naval Research, and is responsible for the management of basic research programs in VLSI algorithms and architectures for signal processing, VLSI reliability, ultra-dependable multiprocessor computers, and electronic neural networks. He is an Associate Editor of the IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS, and is the organizing chairman of the first Government Neural Network Applications Workshop. He is the co-editor of a recently introduced book, An Introduction to Neural and Electronic Networks.

Date: 4-30-91

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Project and Editor(s): Clifford Lau - Foundations of Neural Networks (Derived from "Proceedings" Special Issues.

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FROM: Dudley Kay - Executive Editor

DATE: April 10, 1991

PROJECT: Foundations of Neural Networks (Derived from "Proceedings" Special Issues)

EDITOR(S): Clifford Lau

The above-referenced book project is under contract with the IEEE PRESS and is ready for critical review. The PRESS is seeking a critical review of the: selection and organization of papers, general and section introductions, and original invited papers

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Thanks for your cooperation!

- Review materials enclosed
- Review materials NOT enclosed

Clifford Lau

Foundations of Neural Networks (working title)
IEEE Press Reprint Book

Preface

I. Introduction

- * An Introduction to Computing with Neural Nets, R. P. Lippman (IEEE ASSP Magazine, April 1987)

II. Theoretical Foundations

30 Years of Adaptive Neural Networks: Perceptron, Madaline, and Backpropagation, B. Widrow and M. A. Lehr (Proc. IEEE, Sept. 1990)

Mathematical Foundations of Neurocomputing, S.-I. Amari (Proc. IEEE, Sept. 1990)

The Self-Organizing Map, T. Kohonen (Proc. IEEE, Sept. 1990)

Networks for Approximation and Learning, T. Poggio and F. Girosi (Proc. IEEE, Sept. 1990)

III. Neural Modeling

Synthetic Neural Modeling: The "Darwin" Series of Recognition Automata, G. N. Reeke, Jr., O. Sporns, and G. M. Edelman (Proc. IEEE, Sept. 1990)

- * Neural Networks and Physical Systems with Emergent Collective Computational Abilities, J. J. Hopfield (Proc. Nat. Acad. Sci, April 1982)

- * Adaptive Pattern Classification and Universal Recoding: I. Parallel Development and Coding of Neural Feature Detectors, S. Grossberg (Biol. Cybern., vol. 23, 1976)

- * Adaptive Pattern Classification and Universal Recoding: II. Feedback, Expectation, Olfaction, Illusions, S. Grossberg (Biol. Cybern., vol. 23, 1976)

IV. Analysis and Applications

Backpropagation Through Time: What It Does and How to Do It, P. J. Werbos (Proc. IEEE, Oct. 1990)

- * Neocognitron: A Self-Organizing Neural Network Model for a Mechanism of Pattern Recognition Unaffected by Shift in Position, K. Fukushima (Biol. Cybern., vol. 36, 1980)

CMAC: An Association Neural Network Alternative to Backpropagation, W. T. Miller III, F. H. Glanz, and L. G. Kraft III (Proc. IEEE, Oct. 1990)

A Statistical Approach to Learning and Generalization in Layered Neural Networks, E. Levin, N. Tishby, and S. A. Solla (Proc. IEEE, Oct. 1990)

On the Convergence Properties of the Hopfield Model, J. Bruck (Proc. IEEE, Oct. 1990)

Constructive Approximations for Neural Networks by Sigmoidal Functions, L. K. Jones (Proc. IEEE, Oct. 1990)

On the Decision Regions of Multilayer Perceptrons, G. J. Gibson and C. F. N. Cowan (Proc. IEEE, Oct. 1990)

Nearest Neighbor Pattern Classification Perceptrons, O. J. Murphy (Proc. IEEE, Oct. 1990)

Convergence Properties and Stationary Points of a Perceptron Learning Algorithm, J. J. Shynk and S. Roy (Proc. IEEE, Oct. 1990)

V. Related Techniques

Entropy Nets: From Decision Trees to Neural Networks, I. K. Sethi (Proc. IEEE, Oct. 1990)

A Performance Comparison of Trained Multi-layer Perceptrons and Trained Classification Trees, L. Atlas, R. Cole, Y. Muthusamy, A. Lippman, J. Connor, D. Park, M. El-Sharkawi, and R. J. Marks II (Proc. IEEE, Oct. 1990)

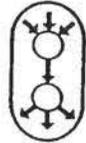
Maximum A Posteriori Decision and Evaluation of Class Probabilities by Boltzmann Perceptron Classifiers, E. Yair and A. Gersho (Proc. IEEE, Oct. 1990)

VI. Applications

Radar Signal Categorization Using a Neural Network, J. A. Anderson, M. T. Gately, P. A. Penz, and D. R. Collins (Proc. IEEE, Oct. 1990)

Neural Network Models of Sensory Integration for Improved Vowel Recognition, B. P. Yuhas, M. H. Goldstein, Jr., T. J. Sejnowski, and R. E. Jenkins (Proc. IEEE, Oct. 1990)

* Paper is non-IEEE; not in *Proceedings*.



NEURAL NETWORKS COUNCIL

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President

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May 2, 1991

Prof. Robert W. Newcomb
Microsystems Laboratory
Electrical Engineering Department
University of Maryland
College Park, Maryland 20742

Dear Bob:

I hereby appoint you Education Chair of the Neural Networks Council. The appointment is subject to the consent of the Council AdCom.

Sincerely,

Robert J. Marks, President
Neural Networks Council

cc: Richard Nichols, IEEE Educational Activities VP
Russ Eberhart, NNC VP
Evangelia Tzanakou, NNC Secretary

A handwritten signature in cursive script, appearing to read "R. Marks".

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January, 1991

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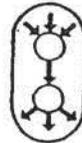
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May 2, 1991

J. Patrick Reilly
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Pat:

FYI

Sincerely,

A handwritten signature in black ink that reads "Bob Marks II" with a small flourish at the end.

Robert J. Marks, President
Neural Networks Council

Enclosure



IEEE

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William R. Tackaberry, Chairman
TAB LIAISON COUNCIL

PLEASE REPLY TO:
25 Beech Avenue
Madison, NJ 07940 USA
Tel.: (201) 377-7371

April 22, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Dept. of Electrical Engineering
University of Washington, MS FT-10
Seattle, WA 98195

Dear Prof. Marks:

For your information, copies of two Power Engineering Society position statements relating to the electric and magnetic fields issue are attached:

- EMF Research
- Standards

Because of the widespread coverage being given this subject, we thought you would find the enclosed material timely.

With best personal regards,

A handwritten signature in cursive script, appearing to read "Tack", written in dark ink.

William R. Tackaberry
Chairman, TAB Liaison Council

Enclosure

WRT/pat

cc: Prof. H. Vincent Poor

IEEE POWER ENGINEERING SOCIETY
ELECTRIC AND MAGNETIC FIELDS ISSUE
POSITION STATEMENT
REGARDING: "EMF RESEARCH"

A comprehensive international program of EMF research is now underway to address and help resolve the concern over possible health effects from Power frequency EMF exposures. The research includes epidemiologic studies of human health in residential and occupational environments, characterization of field sources, exposures experiments, and investigations of biological processes in cell and tissue systems.

The US Department of Energy (DOE) has sponsored a program dealing mostly with laboratory studies. The National Cancer Institute (NCI) is conducting a major study on childhood leukemia in which EMF will be treated as one of the risk factors. Several states have been active in EMF research at various times; currently, California, Florida and New York have major efforts. The Electric Power Research Institute (EPRI), the research arm of the electric utility industry, has been involved in EMF research for the past 15 years. Its current program is the largest in the world, and with Electric Utility support will continue to consider EMF as an extremely important area for research.

The Power Engineering Society (PES) strongly supports the continuation of EMF research in order to provide the scientific basis for decision-making in this complicated area. Since the EMF issue affects all areas of society, the PES supports an increase of funding for basic and applied research by both the private and government sectors.

GVF-030
3-4-91

IEEE POWER ENGINEERING SOCIETY

ELECTRIC AND MAGNETIC FIELDS ISSUE

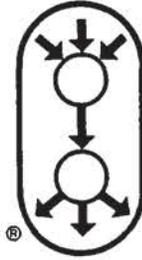
POSITION STATEMENT

REGARDING "STANDARDS"

Currently there is no scientific basis for establishing numerical limits for power frequency electric and magnetic fields. However, in support of achieving a higher degree of confidence in research findings, appropriate organizations need to proceed with the evaluation of certain procedures, concepts and mechanisms for evaluation of EMF and health related issues. Several Professional Societies within IEEE have technical interest in fields and field management; therefore, it is appropriate that a Standards Coordinating Committee with participation from a number of Power Engineering Society (PES) members with technical expertise in appropriate areas (particularly in the development of standards for laboratory and field measurement) determine standards needs and participate in their development.

To promote the technical, scientific, literary and educational understanding of how biological response and electric and magnetic field stimulation are related, the Power Engineering Society promotes/encourages coordination with the Bioelectromagnetics Society and other Societies of IEEE regarding all aspects of this issue.

GVF-030
3-4-91



◆ **IEEE Neural Networks Council** ◆

Executive Committee

Teleconference

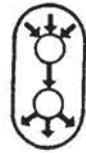
10:00 A.M., Seattle Time, Monday, April 22, 1991





IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

4-18-91

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The ExCom teleconference will be held on Monday, April 22nd at 10:00 AM Seattle time.
Phone numbers for the teleconference you have given me are in **bold** lettering.

Proposed Agenda:

- ◆ Adoption of Agenda
- ◆ Approval of minutes
- ◆ President's Report
 - Towards a Society
 - 1989 Washington DC IJCNN
 - 1992 Fuzz-IEEE
 - NNC Books
 - Educational Activities
 - Council Trademark
 - 1991 Seattle IJCNN
- ◆ Vice President's Report
 - INNS
 - Committee Support
- ◆ Editor's Report
- ◆ Secretary's Report
- ◆ Treasurer's Report
- ◆ Standing Committee Reports
- ◆ Old Business
 - Future Meeting Dates
- ◆ New Business
- ◆ APPENDICES
 - IEEE Awards
 - NNC Members

1. Ok in coming
 2. Ad Hoc Purpose Change
 3. IEEE Draft a change of notice
 4. IEEE Trans. on Fuzz
 5. IEEE Board, Japan

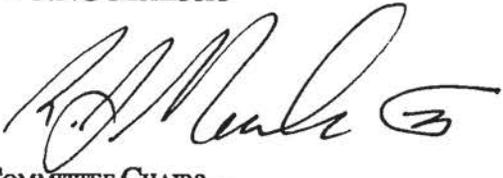
Council Regs
 IEEE Awards

INNS Relation

?
 Soviet Conf
 Int. Veh. Tech
 Next Ex Com

Pat. Status?
 Magle -> Membership miscorrd.
 Roy: Review & submit to AdCom
 Information
 Tutorials on Tape
 Ad Hoc Tutorials on Tape
 Action Requested
 - OK with Ex Com?

- TAB 1
- TAB 2
- TAB 3
- TAB 4
- TAB 5
- TAB 6
- TAB 7
- TAB 8
- TAB 9
- TAB 10
- TAB 11
- TAB 12
- TAB 13
- TAB 13
- TAB 14



Sincerely,
 Robert J. Marks II, President
 IEEE Council on Neural Networks

cc: STANDING COMMITTEE CHAIRS...

Awards Committee

Bradley Dickinson, Chair
 Dept. of Electrical Engineering
 Princeton University
 Princeton, NJ 08544
 bradley@ivy.princeton.edu
 FAX: (609) 258-3745
 (609) 258 -4644

Publications Committee

Toshio Fukuda, Chair
 Nagoya University
 Department of Mech. Eng.
 Furo-Cho, Chikusa-Ku
 Nagoya, Japan
 (052) 781-5111, Ex. 4478, 3301
 FAX: (052) 781-9243
 d43131a@nucc.nagoya-u.ac.jp
 +81-3-3268-2545 (H)

Meetings Committee

Roy S. Nutter, Jr. Chair (1990-91)
 West Virginia University
 821 Electrical Engineering
 P.O. Box 6101
 Morgantown, WV 26506
 FAX: (304) 293 5024
 rsn@a.coe.wvu.wvnet.edu
 (304) 293-6371, ext 510

Standards Committee

Walter Karplus (1991-92)
 3732 Boelter Hall
 UCLA
 Los Angeles, California 90024
 (213) 825-2929
 FAX (213) 825-2273
 karplus@cs.ucla.edu

TAB 1

**Neural Networks Council Meeting Minutes
ExCom Meeting 12/7/90**

NOTE: Because Evangelia Tsanakou, NNC Secretary, was unavailable for the meeting, Patrick K. Simpson agreed to record the minutes of the meeting.

The meeting was called to order at 2:10 pm PST.

Attendance:

With the exception of Evangelia Tsanakou, all of the members of the NNC ExCom were present. For a complete list, please refer to the front matter of the attached booklet.

Adoption of Agenda:

The following agenda was adopted for the meeting. This agenda was modified from the proposed agenda found in the front matter of the attached document.

Agenda

- o Adoption of agenda
- o Approval of minutes
- o President's Report
 - TAB Report
 - Awards
 - Future of NNC
 - Fussy Conference
 - Council Newsletter
- o Vice-President's Report
 - Meetings focus
- o Transactions Editor's Report
 - Page increase
- o Secretary's Report
- o Treasurer's Report
 - IJCNN Seattle Budget
 - Financial Status
- o Old Business
 - Council Newsletter
 - Japan IJCNN
 - Next AdCom meeting
- o New Business
 - Meetings
 - Appointments
 - > TAB
 - > Standards Committee
 - > Nominations Committee
 - TAB Strategic Plan
- o Summary of Action Items

Approval of minutes:

The minutes of the EXCOM Meeting of 11/25/90 were approved without correction. See TAB 1 of the attached document.

President's Report (Robert J. Marks II):

Item 1 - TAB Report. Dr. Marks highlights of the recent TAB Meeting in San Diego. Four items were of expressed interest:

a. Billing and Invoices will be changing within TAB. See TAB 2 of attached.

b. TAB is renewing interest in International meetings.

c. The award proposal presented at TAB was approved. See TAB 2 of attached.

d. The future of the NNC was discussed with several individuals during the course of the meeting and there was a strategy recommended by Dr. Marks that might be able to carry the NNC into a full Society. By encompassing several of the leading edge technologies such as genetic algorithms, evolutionary programming, computational learning theory, and fuzzy theory, it would be much easier to contend for Society status. As a result of this, Dr. Marks put forth the suggestion to have an large Fuzzy Conference in San Diego in 1992 as a means of fostering this move as well as instantiating this position within the IEEE. As a result of this suggestion, an ad hoc committee was created to present a full plan before the council at the next AdCom. The Fuzzy Conference Ad Hoc Committee consists of Patrick K. Simpson, Roy Muttter, Toshio Fukuda, Robert J. Marks II, and Russell Eberhart. This proposal was brought forth as a motion by Dr. Marks, seconded by Simpson, and passed unanimously in a vote.

Item 2 - Council Newsletter. A council newsletter was again brought forward by Dr. Marks. The mechanism for distribution was discussed at some length. It was eventually decided that the newsletter should be tightly coordinated with the Transactions Editor, and then the discussion was tabled until old business.

Vice President's Report (Russell C. Eberhart):

Item 1 - IJCNN90 Singapore. Drs. Eberhart and Marks recently visited Japan to discuss future IJCNN meetings with the country's leaders. In addition to Marks and Eberhart, those in attendance at the meeting included Toshio Fukuda (host), Shun-Ichi Amari, Kunohiko Fukushima, Shiro Usui, and Fumio Harashima (IEEE Secretary). The role of the Japanese in the Singapore and future Japan IJCNN conferences was discussed in detail. The end result was that the Singapore meeting is on track. Further discussion of the Japan IJCNN was tabled until Old Business.

Item 2 - Chinese Neural Network Conference. The NNC was asked to participate in a Chinese Neural Network conference. The invitation from the Chinese was encouraged by Irv Engleson (TAB Staff

Director) as described in TAB 2 of the attached. It was approved by the ExCom for Dr. Eberhart to represent the NNC at this meeting that will be held in Beijing in December.

Secretary's Report (Evangelia Tsanakou):

No report presented. Dr. Tsanakou unable to attend.

Transactions on Neural Networks Editor's Report (Herb Rauch):

Item 1 - Page Increase. Dr. Rauch argued that the \$45,000.00 surplus from the first year of the Transactions should be placed in reserve for the future years. The ExCom agreed. Dr. Rauch then presented a revised Transactions budget (see TAB 3 of attached) that would yield a modest \$5,500.00 deficit for 1991. Dr. Rauch moved that the revised budget and increased page count be adopted. The motion passed unanimously. The new page count is now 640 pages.

Treasurer's Report (Patrick K. Simpson):

Item 1 - IJCNN90 Seattle Budget. A revised IJCNN90 budget was submitted to Mr. Simpson as a result of feedback from the ExCom to the INNS. The new budget still had a large marketing/publicity allocation, but Mr. Simpson emphasized that the increase would, at worst, realize only a break-even result. The added value of determining if extra money spent on publicity potentially yielding a larger audience coupled with the insistence by the INNS that the budget stand as presented led Mr. Simpson to move that the budget be accepted as presented. The motion passed unanimously.

Item 2 - Financial Status. The current financial status of the NNC was presented in a graph (see TAB 3 of the attached). The current holdings of the NNC are \$380,000.00. The assets of the NNC have been accumulating at the rate of \$18,600.00 per month.

Old Business:

Item 1 - Council Newsletter. The discussion of the newsletter that was started in the President's Report was resumed. The motion was made by Dr. Marks to have an Ad Hoc committee create a proposal that could be presented at the next AdCom. The motion passed unanimously. The Ad Hoc committee consists of Fukuda (publications chair), Rauch (Founding Transactions Editor), Marks (ex officio member), and Roth (Transactions Editor and Ad Hoc Committee chair).

Item 2 - Japan IJCNN. The meeting in Japan was opened for discussion again. TAB 5 of the attached describes the outcome of the meeting. As a result of this meeting, alternate meeting sites in Australia were considered and then tabled for discussion in future IOC meetings. The discussion finally resulted in the following carefully worded motion by Eberhart, "Motion by Eberhart to reconfirm support of the 1993 IJCNN in Nagoya Japan and the IEEE NNC would not support any other Japanese Conference with 20 months of the 1993 Conference." Motion passed unanimously with a

recommendation that Marks forward this decision to the INNS.

Item 3 - Next AdCom Meeting. Because of several items that were being brought forth in the discussions, it was felt that a full NNC AdCom meeting should be held to involve all the voting members. Topics include: Fussy Conference, Newsletter, Forum proposals, Future IJCNN Conferences, and standing committee reports. After a long discussion it was agreed to hold the AdCom in Baltimore on January 26, 1991. The motion was made by Marks and seconded by Roth. Motion passed unanimously. Roth and Eberhart, will host. Nomi Feldman will coordinate arrangements.

New Business:

Item 1 - Participation in future meetings. Nutter presented a list of several meetings that the NNC was asked to participate in (see TAB 6 of the attached). The following meetings were approved unanimously:

- Adaptive Materials and Adaptive Structures Meeting
- Auburn University Neural Network Workshop

The PICA conference was discussed and then tabled until a later date. More information was needed to make a decision.

Item 2 - Appointments. There were several appointments available to IEEE committees that Dr. Marks presented (see TAB 7 of the attached). Those that were approved by the ExCom included:

- J. Patrick Reilly, IEEE USA Technology Policy Council
- Robert J. Marks II, Nominations committee for next election

Item 3 - TAB Strategy Plan. TAB presented a strategic plan to the member societies and asked for a list of prioritized input. Dr. Marks agreed to provide this input and submit it back to TAB.

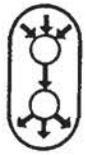
Item 4 - Summary of Action Items. The following action items were a result of this meeting.

- o Dr. Marks will write a letter concerning the NNC's position on the Japan IJCNN conferences.
- o Mr. Simpson will prepare these minutes for distribution at the next AdCom meeting.
- o The standing and Ad Hoc committees each need to prepare reports for the next AdCom meeting.

Adjournment:

The meeting was adjourned at 3:50 pm PST.

TAB 2



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

NNC Council ExCom Proprietary

5-17-91

A Discussion Item for ExCom:

◆ The future of the Council ◆

- Summer 1991 Seattle IJCNN
 - Approve '94 World Congress
 - Approve Statement of Interest Change
 - ad hoc IEEE Trans. on Fuzz
 - ad hoc Intelligent Systems Mag.
- Fall 1991 Mexico TAB
 - Approve Statement of Interest Change
- Fall 1991 Singapore ExCom
 - Establish ad hoc Society Constitution Comm.
- Spring 1992 FUZZ IEEE AdCom
 - Approve IEEE Trans. on Fuzz Comm.
 - Approve Intelligent Systems Mag.
 - Approve Society Constitution
- Summer 1992 TAB
 - Approve IEEE Trans. on Fuzz
 - Approve Intelligent Systems Mag.
- Summer 1992 Baltimore IJCNN AdCom
 - Approve Society Constitution
- Winter 1993 IEEE TAB
 - Propose Society

TAB 3



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Dr. Irving Engelson
IEEE Activities Department
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Dr. Engelson:

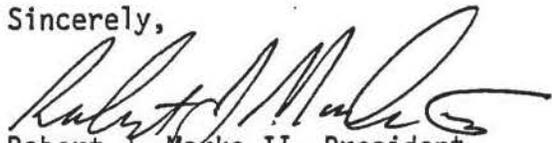
On June 19, 1990, IEEE Neural Networks AdCom passed a motion "that we recommend that IEEE headquarters pursue and refer to the Technical Activities Department the results of the audit of the 1989 IEEE/INNS IJCNN."

To adhere with this motion, I hereby enclose

1. A copy of the subject audit.
2. A transcript of the discussion of the AdCom concerning this motion.
3. Copies of material submitted to the record during this dialogue.
4. The Auditor's solicited chronological documentation of events surrounding the audit with copies of supporting correspondence.

I will henceforth refer all queries concerning this matter to your office.

Sincerely,


Robert J. Marks II, President
IEEE Neural Networks Council

CC: Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Patrick K. Simpson, NNC Treasurer
Nick DeClaris, IJCNN Finance Chair
Paul Werbos, INNS President
Charles Robinson

File

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Dr. Irving Engelson
IEEE Activities Department
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Dr. Engelson:

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Robert J. Marks II, President
IEEE Neural Networks Council

CC: Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Patrick K. Simpson, NNC Treasurer
Nick DeClaris, IJCNN Finance Chair
Paul Werbos, INNS President
Charles Robinson

✓ *File*

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Nicholas DeClaris
8518 Beauford Drive
Fulton, Maryland 20759

Dear Nick:

I have been directed by the Neural Networks Council AdCom to refer all aspects of the 1989 IJCNN audit to the Technical Activities Department at IEEE. As you can see by the attached correspondence to Dr. Engelson, I have done so.

To the best of my knowledge, approximately \$2,000 in conference surplus has yet to be returned to the Council. I believe that you are still in possession of a check for this surplus. If you have not already done so, I request that you send the check directly to Dr. Irving Engelson at IEEE. I request that you do so before April 15.

Cordially,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Dr. Irving Engelson, IEEE Technical Activities Dept.

Attachment

bc: Russ Eberhart, NNC Vice President
Patrick Simpson, NNC Treasurer

File

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 15, 1991

Dr. Irving Engelson
IEEE Activities Department
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Dr. Engelson:

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I will henceforth refer all queries concerning this matter to your office.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

CC: Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Patrick K. Simpson, NNC Treasurer
Nick DeClaris, IJCNN Finance Chair
Paul Werbos, INNS President
Charles Robinson

File

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

TAB 4

March 13, 1991

IEEE Conference Series
445 Hoes Lane
Piscataway, NJ 08855-1331

Dear Sirs,

Herewith I am sending you by Federal Express the following items regarding FUZZ-IEEE, The First International Conference on Fuzzy Systems, sponsored by the IEEE Neural Networks Council, to be held in San Diego, CA on March 8-12, 1992.

1. IEEE Conference Information Schedule
2. Detailed Financial Report Parts I (Income) and II (Expenses) : Budget
3. Summary Financial Report : Budget
4. Conference Insurance Request

Please process this material as expeditiously as possible.

With many thanks.

Sincerely yours,

James C. Bezdek 3/13/91

James C. Bezdek
Nystul Professor of Computer Science, and Chair
FUZZ-IEEE : The International Conference on Fuzzy Systems

Copies to: Robert Marks, Pat Simpson, Don Kraft, Didier Dubois, Naomi Feldman



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference INTERNATIONAL FUZZY SYSTEMS CONFERENCE (FUZZ-IEEE)

2. Dates of Conference _____

3. Location of Conference (full name and address) TOWN & COUNTRY HOTEL
500 HOTEL CIRCLE NORTH, SAN DIEGO, CA 92108

4. Estimated Attendance 500

5. Exhibits Yes No

6. Will there be a Conference publication? Yes No If yes, check one box below.
 Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE Neural Networks Council</u>	%	<u>100</u>
Entity	_____	%	_____
Entity	_____	%	_____
Entity	_____	%	_____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
Entity <u>IEEE INDUSTRIAL ELECTRONICS SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>IEEE COMMUNICATIONS SOCIETY</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>INTERNATIONAL FUZZY SYSTEMS ASSOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>NORTH AMERICAN FUZZY INF. PROC. SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
If yes, who was contacted? JIM BUSSERT Name San Diego Section Section

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN JAMES C. BEZDEK Tel. No. (904) 474-2784
Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514

INFORMATION CONTACT Meeting Management, N. Feldman Tel. No. (619) 453-6222
Address 5665 Oberlin Drive, Ste 110, San Diego, CA 92121

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:

Name JAMES C. BEZDEK Tel. No. (904) 474-2784
Address Computer Science U. of W. Florida, Pensacola, FL 32514
Conference Position General Chairman

SIGNATURE James C. Bezdek Date 3/8/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

General Chair

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Computer Science
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tel. (904) 474-2784
fax (904) 474-3023
jbezdek@uwf.bitnet

Dr. Richard Tong
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Dr. Piero Bonissone
General Electric CR & D
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Honorary Chair

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Irvine, CA 92714

Finance Committee

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Computer Science Dept
LSU
Baton Rouge, LA 70803
504-388-1331

Professor T. Yamakawa
Computer Science Department
Kyushu Institute of Technology
Iizuka, Fukuoka 820, JAPAN

Pat Simpson
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General Dynamics
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tel. (619) 573-2417
fax (619) 573-7400

Prof. Hans Zimmermann
Operations Research
Aachen Institute of Technology
Templergraben 64
5100 Aachen, FRG

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Dr. Enrique Ruspini
Artificial Intelligence Center
SRI International
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Menlo Park, CA 94025
(415) 859-2314
RUSPINI@AI.SRI.COM

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Binghamton, NY 13901

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Tokyo Institute of Technology
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Yokohama, 227, JAPAN

Prof. Toshiro Terano
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Koganei, Tokyo 184, JAPAN

Dr. Ronald Yager
Machine Intelligence Institute
Iona College
New Rochelle, NY 10801

Administration

Nomi Feldman, FUZZ-IEEE
Meeting Management
5665 Oberlin Dr., Ste 110
San Diego, CA 92121
(619) 453-6222



This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)
 Dates of Conference MARCH 8-12, 1992

- SEE ATTACHED SHEET -

INCOME

REGISTRATION FEES

	Quantity	Fee	=	Budget	Interim Report	Final Report
In Advance - Members	_____ x _____	_____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x _____	_____	=	_____	_____	_____
In Advance - Reduced Rate	_____ x _____	_____	=	_____	_____	_____
At Conference - Members	_____ x _____	_____	=	_____	_____	_____
At Conference - Nonmembers	_____ x _____	_____	=	_____	_____	_____
At Conference - Reduced Rate	_____ x _____	_____	=	_____	_____	_____
Total Registrants	_____	Total		\$ _____	\$ _____	\$ _____

CONFERENCE PUBLICATION SALES

To Members	_____ x _____	_____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x _____	_____	=	_____	_____	_____
To IEEE Hq.	_____ x _____	_____	=	_____	_____	_____
Total Copies	_____	Total		\$ _____	\$ _____	\$ _____

EXHIBITS

Tables	_____ x _____	_____	=	\$ _____	\$ _____	\$ _____
Booths	_____ x _____	_____	=	_____	_____	_____
Booths	_____ x _____	_____	=	_____	_____	_____
	_____ x _____	_____	=	_____	_____	_____
Total		Total		\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS

(Itemize by event on separate sheets.)

Total	\$ _____	\$ _____	\$ _____
--------------	----------	----------	----------

ALL OTHER (List here or attach details.)

_____	\$ _____	\$ _____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____
Total	_____	_____	_____
TOTAL INCOME	\$ 312,750	_____	_____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE FINANCIAL REPORT

PART I: INCOME

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Qua.	Fee	Budget	Inter Rpt	Fin Rpt
REGISTRATION FEES					
Members					
Memb. before 11/2/91	100	195.00	19,500.00		
Memb. before 1/31/92	100	295.00	29,500.00		
Memb. at conf.	200	390.00	78,000.00		
Non-Members					
Non-memb. before 11/2/91	50	295.00	14,750.00		
Non-memb. before 1/31/92	25	395.00	9,875.00		
Non-memb. at conf.	25	490.00	12,250.00		
Students					
Before 11/2/91	25	50.00	1,250.00		
Before 1/31/92	25	75.00	1,875.00		
Students at conf.	50	95.00	4,750.00		
Total registrants	600	Total	171,750.00		
CONFERENCE PUBLICATION SALES					
To members	25	50.00	1,250.00		
To non-members	25	100.00	2,500.00		
To IEEE headquarters	450	25.00	11,250.00		
Total Copies	500	Total	15,000.00		
EXHIBITS					
Booths/Publishers	5	650.00	3,250.00		
Booths/All Others	25	950.00	23,750.00		
Total			27,000.00		
SOCIAL FUNCTIONS					
.....			\$0.00		
Total			\$0.00		
ALL OTHER					
Tutorial, one only	60	200.00	12,000.00		
Tutorial, two	200	300.00	60,000.00		
Seed Money Advance	1		30,000.00		
Total			102,000.00		
TOTAL INCOME			315,750.00		



IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)

Dates of Conference _____

PROMOTION

Budget

Interim Report

Final Report

Printing / Call for Papers \$ _____

Printing / Advance Program _____

Printing / Final Program _____

Mailing Lists / Labels _____

Postage _____

Other _____

Total

\$ _____

\$ _____

\$ _____

SEE ATTACHED SHEET

CONFERENCE PUBLICATION

Conference Record / Digest Printing \$ _____

Author Kits Printing _____

Shipping to Site and IEEE Hq. _____

Total

\$ _____

\$ _____

\$ _____

EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)

Total

\$ _____

\$ _____

\$ _____

SOCIAL FUNCTIONS

(Itemize event on separate sheets.)

Total

\$ _____

\$ _____

\$ _____

ADMINISTRATION

Insurance & Bonding \$ _____

Security & Guard Service _____

Projection Equip. Rent & Operator _____

Management, Secretarial Services _____

Office Equip. Rental _____

Printing forms, Tickets, Stationery, Etc. _____

Posters, Signs, Badges, Etc. _____

Telephone _____

Transportation _____

Gratuities, Etc. (Attach details) _____

Total

\$ _____

\$ _____

\$ _____

ALL OTHER

Committee Expenses \$ _____

Other (Attach Details) _____

Total

\$ _____

\$ _____

\$ _____

TOTAL EXPENSES

\$ 282,000

\$ _____

\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: _____

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name James C. Bezdek

Tel. No. (904) 474-2784

Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514

Conference Position _____

SIGNATURE James C. Bezdek

Date 3/15/91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE FINANCIAL REPORT

Robert J. Marks II Library Archive

PART II: EXPENSES

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
PROMOTION			
Flyer/prod & printing	15,000.00		
Program/prod & printing	5,000.00		
Mailing lists and labels	5,000.00		
Postage	21,000.00		
Mailing house	5,000.00		
Advertising	15,000.00		
Other/Souvenir Items	5,000.00		
Total promotion	71,000.00		
CONFERENCE PUBLICATON			
Conf. record/digest printing	50,000.00		
Comm w. auth & sess chairs	2,500.00		
Total conf. publication	52,500.00		
EXHIBITS			
Signage	1,500.00		
Brochure	1,000.00		
Furniture	2,500.00		
Comm w Exhibitors	1,000.00		
Total exhibits	6,000.00		
SOCIAL FUNCTIONS	45,000.00		
ADMINISTRATION			
Insurance and bonding	100.00		
Security and guard service	2,000.00		
Audio-video rental and op.	1,500.00		
Management Fee (sliding scale)	25,000.00		
Office equipment rental	1,000.00		
Pr. forms tickets, sta., etc.	1,250.00		
Posters, signs, badges, etc.	1,250.00		
Telephone, FAX, copying	1,000.00		
Registration clerical help	10,000.00		
Registration supplies	400.00		
Total Administration	43,500.00		
ALL OTHER			
Tutorials/Signage	1,500.00		
Tutorials/Notebooks	2,500.00		
Tutorials/Audio-Visual	1,000.00		
Tutorials/Honoraria	18,000.00		
Audit	3,000.00		
Invited Speakers/Honoraria	8,000.00		
Total Other	34,000.00		
TOTAL CONFERENCE EXPENSES	252,000.00		
LOAN REPAYMENT	30,000.00		
TOTAL OUTLAYS	282,000.00		



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference INTERNATIONAL FUZZY SYSTEMS CONFERENCE (FUZZ-IEEE)
 2. Dates of Conference MARCH 8-12, 1992
 3. Location of Conference (full name and address) Town & Country Hotel, 500 Hotel Circle N., San Diego, CA 92108

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report
 5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: _____ Conversion rate: _____ Date of conversion rate: _____

	<i>SEE ATTACHED SHEET</i>		
	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	_____	_____	_____
13. Total Receipts	\$ _____	\$ _____	\$ _____

	Budget	Interim Report	Final Report
14. Promotion	\$ _____	\$ _____	\$ _____
15. Conference Publications	_____	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	_____	_____	_____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 315,750 24. Total Outlays (22) \$ 282,000
 25. Surplus (Loss) - (Item 23 less Item 24) \$ 33,750

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. <u>IEEE Neural Networks Council</u>	<u>100</u>	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank Point Loma Federal Credit Union, Sports Arena Branch # 01
 Address 3777 Sports Arena Blvd., San Diego, CA 92110
 Conference Account Title FUZZ-IEEE 1992 Account No. 080401743
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name James C. Bezdek Tel. No. (904) 474-2784
 Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514
 Conference Position General Chair

SIGNATURE James C. Bezdek Date 3/15/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

=====

IEEE FINANCIAL REPORT

PART III: SUMMARY

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
INCOME			
6. Registration fees	171,750.00		
7. Conf. publication sales	15,000.00		
8. Exhibits	27,000.00		
9. Social Functions			
10. All other conf. receipts (tutorials)	72,000.00		
11. Total conference income	285,750.00		
12. Advance loans	30,000.00		
13. Total receipts	315,750.00		
 EXPENSE			
14. Promotion	71,000.00		
15. Conference publications	52,500.00		
16. Exhibits	6,000.00		
17. Social functions	45,000.00		
18. Administration	43,500.00		
19. All other conf. expenses	34,000.00		
20. Total conference expenses	252,000.00		
21. Loan repayments	30,000.00		
22. Total outlays	282,000.00		
 SURPLUS (LOSS)			
23. Total receipts	315,750.00		
24. Total outlays	282,000.00		
25. Surplus (loss)	33,750.00		



REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name International Fuzzy Systems Conference
Conference Dates March 8-12, 1992
Conference Hotel or Center Town and Country Hotel, 500 Hotel Circle N.,
Conference Location (City, State & Zip Code) San Diego, CA 92108
CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)
If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)
If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000
A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)
Note: There will be an approximate \$100 charge billed directly to the conference.

CONFERENCE WILL CHARTER: Bus Other (explain) _____
See special note regarding transportation rental.

CERTIFICATE OF INSURANCE
You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.

Name James C BEZDEK
Conference Title General Chairman
Address Div. of Computer Science
Univ. of West Florida
Pensacola, FL 32514
Phone No. (904) 474-2784
Signature James C. Bezdek
Date 3/5/91

FOR OFFICIAL USE ONLY

CONF DATE

Mo.	Date	Yr.

Date Rec'd _____
Date Ack _____
Off&Ctm List _____
Charter Cert _____
 IN & OUT ROBBERY
- A&A Inv. Req. _____
- Inv. to Conf. _____
- Check to A&A _____
 INSURANCE CLAIM
 FILE COMPLETE

(PLEASE MAKE A PHOTOCOPY AND RETAIN FOR YOUR RECORDS)

TAB 5

AT&T Bell Laboratories
Rm 1E-220A
1 Whippany Rd
Whippany, NJ 07981
Phone: (201) 386-4289
Fax: (201) 386-6346
March 28, 1991

Professor Robert J. Marks, II, President
IEEE Neural Networks Council
Department of Electrical Engineering
University of Washington
FT-10
Seattle, WA 98195

Dear Professor Marks,

Thank you for your letter dated 2/25/91. I agree that both books edited by Dr. Lau are appropriate for sponsorship by the NN Council.

In pursuing this, I contacted Dr. Lau who also agreed with the above statement as follows:

- A. "Neural Networks" project, a Reprint Book edited by Dr C. Lau.

Dr. Lau agrees to have NN Council sponsor his book. In addition, Mr Dudley Kay informed me that, based on his conversation with Dr Reed Crone, the Proceedings agrees to have NNC sponsoring this book. My recommendation is that NNC sponsors this book. If NNC agrees with my recommendation, then, the IEEE Press Confirmation of Sponsorship form (attached) should be filled out and sent to IEEE. The form also contains terms of the agreement.

- B. The Reprint Book edited by E. Sanchez-Sinencio and C. Lau is already sponsored by the IEEE Circuits and Systems Society.

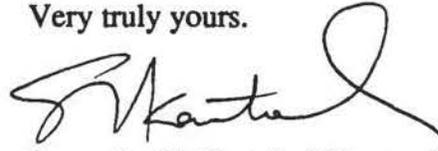
Dr. Lau agrees to have NN Council co-sponsoring this book **provided** that the C&S Society agrees.

Dr. Lau also recommended that the matter should also be discussed with Prof. R. Newcomb and Prof. Sanchez-Sinencio. Prof. Newcomb agrees, based on my conversation with him. In addition, I have sent a letter to Prof. Sanchez-Sinencio

explaining our co-sponsoring interests. Prof Sanchez promised me that he'll get back to me in writing soon. For the time being, I'm awaiting his reply.

- C. With respect to Jim Bezdek's recommendation mentioned in your letter, I will act as soon as I receive it.

Very truly yours.



Stamatios V. Kartalopoulos
NNC Liaison to IEEE Press

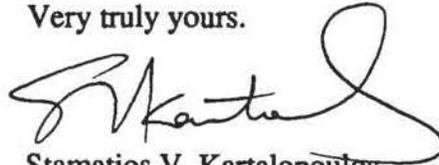
CC:

Toshio Fukuda, NNC Publications Chair
Russ Eberhart, NNC Vice President
Evangelia Micheli-Tzanakou, NNC secretary

explaining our co-sponsoring interests. Prof Sanchez promised me that he'll get back to me in writing soon. For the time being, I'm awaiting his reply.

- C. With respect to Jim Bezdek's recommendation mentioned in your letter, I will act as soon as I receive it.

Very truly yours.



Stamatios V. Kartalopoulos
NNC Liaison to IEEE Press

CC:

Toshio Fukuda, NNC Publications Chair
Russ Eberhart, NNC Vice President
Evangelia Micheli-Tzanakou, NNC secretary



IEEE Press
Dudley Kay
Executive Editor
445 Hoos Lane,
Piscataway, NJ 08855-1331
FAX - 908-981-1855

Confirmation of Sponsorship

When signed by an authorized representative of a sponsoring IEEE entity and returned to the Executive Editor of the IEEE PRESS, this form will serve to confirm sponsorship of the following PRESS book project:

Book Title: _____

Author/
Editor(s): _____

Book Type: _____ Initiated by: _____

Please complete the information requested below and signify the level of sponsorship desired:

Confirmation of Sponsor's Technical Review of the Book Proposal

It is expected that the author's book proposal has been carefully reviewed by several experts in the book's topic area. List the names of the technical reviewers below, with addresses and phone numbers if available, and attach either their written reviews or a summary of their comments. Recommendations for fine-tuning the book plan, or pointing out of key areas of concern as the manuscript develops, will be particularly helpful at this stage.

Reviewer 1

Reviewer 2

Reviewer 3

If the proposal cannot be accepted for sponsorship until major revisions have been made to the book proposal, check here →

From this point on, the Sponsor may take either a passive role in the book's development and promotion, or a very active role in bringing the book to fruition. The choice will be reflected in the Sponsor's royalty schedule. Please check the level of sponsorship desired.

PASSIVE ENDORSEMENT - Sponsor approves the book plan as to technical merit and reasonable marketability to its members. No further involvement with the book as it develops and is published is contemplated at this time. Royalties to the Sponsor will be 1% of net sales income on all sales over the first \$40,000 gross sales revenue.

VOLUNTARY PARTIAL INVOLVEMENT - Sponsor will attempt to assign reviewers to the final manuscript and offer suggestions for promoting the published book, but no firm commitments can be made at this time. Royalties to the Sponsor will be 1% of all gross sales revenue.

ACTIVE SPONSORSHIP COMMITMENT - Sponsor will arrange technical reviews of the manuscript in complete or partial draft stages, offer assistance in promoting the book to members via its publications and conferences, offer recommendations for promoting the book to non-members, and attempt to answer questions as may arise during the book's development and promotion. Royalties will be on an escalating scale of 1% of the first \$50,000 net sales, 2% on the next \$50,000, 3% on the next \$100,000, and 5% on all sales over \$200,000. Up to \$500 advance against royalty may be requested to defray the cost of obtaining critical reviews.

Sponsorship of this book as indicated by the level checked above is hereby authorized by:

Name (print) _____

IEEE Title/office _____

Address _____

Phone _____ FAX _____

Signature _____

 Sponsor's *contact person* on this particular project, *if different from above*, will be:
(provide name, address, phone, and FAX)

For IEEE: _____ Date: _____

From this point on, the Sponsor may take either a passive role in the book's development and promotion, or a very active role in bringing the book to fruition. The choice will be reflected in the Sponsor's royalty schedule. Please check the level of sponsorship desired.

PASSIVE ENDORSEMENT - Sponsor approves the book plan as to technical merit and reasonable marketability to its members. No further involvement with the book as it develops and is published is contemplated at this time. Royalties to the Sponsor will be 1% of net sales income on all sales over the first \$40,000 gross sales revenue.

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ACTIVE SPONSORSHIP COMMITMENT - Sponsor will arrange technical reviews of the manuscript in complete or partial draft stages, offer assistance in promoting the book to members via its publications and conferences, offer recommendations for promoting the book to non-members, and attempt to answer questions as may arise during the book's development and promotion. Royalties will be on an escalating scale of 1% of the first \$50,000 net sales, 2% on the next \$50,000, 3% on the next \$100,000, and 5% on all sales over \$200,000. Up to \$500 advance against royalty may be requested to defray the cost of obtaining critical reviews.

Sponsorship of this book as indicated by the level checked above is hereby authorized by:

Name (print) _____

IEEE Title/office _____

Address _____

Phone _____ FAX _____

Signature _____

 Sponsor's *contact person* on this particular project, *if different from above*, will be:
(provide name, address, phone, and FAX)

For IEEE: _____ Date: _____

TAB 6



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

April 3, 1991

Dr. Robert Marks
University of Washington
Department of Electrical Engineering
Ft-10
Seattle, WA 98195

Dear Dr. Marks:

I appreciate all the time and energy you spent this morning discussing the possibility of a mutual arrangement between the Educational Activities Board and the Neural Networks Council. Through cooperative arrangements like this we are able to provide a much larger member service to individual societies/councils as well as the greater IEEE membership. Your expertise and advice regarding the technical agenda will certainly enhance the educational value of the programs.

Enclosed are copies of our video guidelines and a sample contract which we have used in similar situations with other societies. I look forward to working with you and the council to produce video tutorials and emerging technology tapes on neural networks and fuzzy logic.

Please let me know how we can help to get things going.

Sincerely yours,

Peter Wiesner
Manager
Individual Learning Activities

Attachments

cc: B. Babeu Murray
R. A. Stampfl

neurnets.1

DRAFT

Draft Letter of Agreement

This Letter of Agreement is between the Educational Activities Board of the Institute of Electrical and Electronics Engineers, Inc. (IEEE), and the _____ Society/Council and _____, instructor of the tutorial entitled " _____" which will be held on _____.

The IEEE/EAB agrees to:

- A. Commit \$_____ toward production costs.
- B. Make all recording and editing arrangements.
- B. Make available to the tutorial presenters a complementary copy of a fully edited version of their presentation.
- C. Responsibility for marketing/promotion and distribution of the programs to the IEEE membership.
- D. Pay a rebate to _____ Society/Council of \$6.00 for each program sold by IEEE for a period of 1 year from the date of release of the program, based on the IEEE inventory analysis report of member and non-member sales. Payments to the _____ Society/council will be made by internal transfer to account number _____.

Payment to the presenter will be made to the following address:

The Society/Council agrees to:

- A. Commit \$_____ toward production costs.
- B. Provide a list of the attendees at the _____ Meeting/Conference and sell to attendees at discount.
- C. Obtain permission from the presenters and pay honoraria (if any).

The Presenter agrees to:

- A. Notify the IEEE/EAB of any copyrighted material included in their presentation and, as applicable, obtain release for said copyright material. Grant these rights to the IEEE/EAB for this videotape program only. All other rights to the presentation's technical content or visual material remain the expressed property

DRAFT

of the presenter.

B. Prepare visuals for the video presentation according to the attached guidelines.

C. Provide the Video Tutorial Coordinator with one hardcopy of the visuals along with the learning objectives of the tutorial, and a list of references.

D. Utilize this particular videotape program only for instructional purposes within the presenter's respective company and/or institution.

E. Provide biographical information and a brief synopsis of the tutorial.

Cancellation Clause:

This contract shall be construed in accordance with the laws of the State of New York and shall be deemed to have been accepted in said state. It may not be changed orally. Any controversy or claim arising out of or relating to this Agreement, or the breach thereof, shall be settled by arbitration in New York, in accordance with the rules of the American Arbitration Association, and judgement upon the award rendered by the arbitrator may be entered in any court having jurisdiction thereof.

Society/Council Authorization

Date

Presenter/s

Date

Social Security #

Rudolph A. Stampfl
Staff Director
Educational Activities

Date

Thomas W. Bartlett
IEEE Associate General
Manager Finance & Administration

Date



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 633233 FAX (201) 981-1686

FAX TRANSMITTAL COVER SHEET

TO: Robert Marks

DATE: 5/10/91

COMPANY: ~~Univ.~~ Univ. of Washington

TIME: _____

FAX NO.: (206) 543-3842

NO. OF PAGES 3
(including this sheet)

FROM: Peter Wiesner

DEPT: EDUCATIONAL ACTIVITIES

FAX # (908) 981-1686

IF PAGES ARE NOT RECEIVED PROPERLY, PLEASE CALL: (908) 562-_____

HANDLING INSTRUCTIONS:

- HIGH PRIORITY (HAND DELIVER IMMEDIATELY)
- CALL WHEN COMPLETED
- NORMAL PROCESSING

OTHER Attached is a list of our current neural nets offerings for our discussion concerning new programs in cooperation with the Neural Nets Council.

IEEE Headquarters
345 East 47th Street
New York, NY 10017-2394
Facsimile No.: (212) 752-4929

IEEE Service Center
445 Hoes Lane
Piscataway, NJ 08855-1331
Facsimile No.: (201) 981-0027

IEEE U.S.A. Washington Office
1828 L Street, N.W., Suite 1202
Washington, DC 20036-5104
Facsimile No.: (202) 785-0835

Spread Spectrum Communications

Fundamentals and Applications
Presented by Glenn E. Prescott, University of Kansas, Lawrence
Product No: HV0121-4
Recording Date: May 1989
List Price: \$135.95
Member Price: \$65.95
Run Time: 3 Hours/2 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Series**International Conference on Neural Networks/88**

The following thirteen video tutorials, which were recorded at the ICNN/88, are available at reduced prices as a complete set of 13 programs or a smaller set of any 6 tapes, or may be purchased individually.

Neural Networks/88 Package I (All 13 Programs)

Product No: HV0100-8
Recording Date: July 1988
List Price: \$1269.50
Member Price: \$749.50
Run Time: 26 Hours/13 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Package II (Any 6 Programs)

Product No: HV0099-2
Recording Date: July 1988
List Price: \$629.95
Member Price: \$329.95
Run Time: 12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Neurobiological Review 1988

Presented by Michael A. Arbib, University of Southern California
Product No: HV0101-6
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Resonance

Presented by Gail A. Carpenter, Northeastern University and Boston University
Product No: HV0102-4
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Pattern Recognition Review

Presented by David Casasent, Carnegie-Mellon University
Product No: HV0103-2
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1988

Presented by H.J. Caulfield, University of Alabama
Product No: HV0104-0
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Vision

Presented by John Daugman, Harvard University Division of Applied Science
Product No: HV0105-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Competitive and Cooperative Learning Systems

Presented by Stephen Grossberg, Boston University
Product No: HV0106-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurocomputing Applications

Presented by Robert Hecht-Nielsen, University of California
Product No: HV0107-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Dynamical Systems Review

Presented by Morris Hirsch, University of California, Berkeley
Product No: HV0108-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Self-Organizing Feature Maps

Presented by Teuvo Kohonen, Helsinki University of Technology
Product No: HV0109-9
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Associative Memory

Presented by Bart Kosko, University of Southern California
Product No: HV0110-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Parallel Distributed Processing

Presented by David Rumelhart, Stanford University
Product No: HV0111-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Speech

Presented by Terrence J. Sejnowski, Johns Hopkins University
Product No: HV0112-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Neural Networks

Presented by Bernard Widrow, Stanford University
Product No: HV0113-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks/89 Series**International Joint Conference on Neural Networks**

The following eight video tutorials, which were recorded at the 1989 IEEE/INNS Joint Conference in Washington, DC, are available as a package at reduced prices, or may be purchased individually.

Neural Networks/89 Package (All 8 Programs)

Product No: HV0123-0
Recording Date: June 1989
List Price: \$849.95
Member Price: \$449.95
Run Time: 16 Hours/8 VHS Tapes
Standard: NTSC, PAL

Adaptive Pattern Recognition

Presented by Leon Cooper, Brown University
Product No: HV0124-8
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurobiology Review 1989

Presented by Walter J. Freeman, University of California, Berkeley
Product No: HV0125-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Sensory-Motor Control

Presented by Stephen Grossberg, Boston University
Product No: HV0126-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks: Algorithms and Microhardware

Presented by John J. Hopfield, California Institute of Technology and AT&T Bell Laboratories
Product No: HV0127-1
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

VLSI Technology and Neural Network Chips

Presented by Lawrence D. Jackel, AT&T Bell Laboratories
Product No: HV0128-9
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1989

Presented by Demetri Psaltis, California Institute of Technology
Product No: HV0129-7
Recording Date: June, 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Starting a Hi-Tech Company

Presented by Peter W. Wallace, Hambrecht & Quist
Product No: HV0130-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Reinforcement Learning

Presented by Ronald J. Williams, College of Computer Science, Northeastern University
Product No: HV0131-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Power System Fault Calculation Series

Developed by Charles W. Brice III, University of South Carolina
The three parts of this series are divided into 10 to 20 minute video segments, followed by study guide/workbook practice problems.

Three-Phase Short Circuits

Product No: HV0069-5
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 115 Min/1 VHS Tape
Standard: NTSC, PAL

Unsymmetrical Short Circuits

Product No: HV0070-3
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

Applications to Industrial Power Distribution Systems

Product No: HV0071-1
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

NEW...**Robotics/90 Series**

The following three video tutorials on robotics are available as a package at a reduced price, or may be purchased individually.

Robotics/90 Package (All 3 Programs)

Product No: HV0159-4
Recording Date: May 1990
List Price: \$315.95
Member Price: \$165.95
Run Time: 9-12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Modeling and Control of Automated Manufacturing Systems

Presented by Alan Desrochers, Rensselaer Polytechnic Institute
New researchers as well as practicing engineers will find this video tutorial to be of great value. It gives a summary of the significant research in automation and flexible manufacturing. It provides the newest mathematical control methods, and explains their potential for changing the operation of modern manufacturing systems. In addition to discussing modeling methods, control issues, manufacturing software, and performance analysis of transfer lines, the tutorial emphasizes the Petri net approach.
Product No: HV0160-2
Recording Date: May 1990
List Price: \$135.95
Member Price: \$65.95
Run Time: 3-4 Hours/2 VHS Tapes
Standard: NTSC, PAL

Networking for Computer-Integrated Manufacturing

Presented by A. Ray, Pennsylvania State University; K.H. Murali, Industrial Technology Institute; and Arun Ayyagari, Boeing Electronics Division
This video tutorial provides an in-depth look at the fundamentals of networking for computer-integrated manufacturing. Emphasizing intelligent manufacturing and systems integration, the program covers several components of network analysis and design. Topics include basic concepts and architectures of CIM networking, introduction to manufacturing automation protocol (MAP) and technical and office protocols (TOP), management and control of CIM net-

TAB 7



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (201) 981-0060 TELEX 833233 FAX: (201) 981-0027

DIRECT NUMBER (201) 562-3966

March 27, 1991

Prof. Robert J. Marks II
Department of Electrical Engineering
MS FT10
University of Washington
Seattle, WA 98195

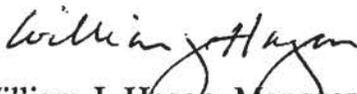
SUBJECT: Trademark Registration of IEEE NNC Logo and Conference Title

Dear Prof. Marks:

Ann Burgmeyer has indicated recently that you (as representative of the IEEE Neural Networks Council) would like to have the above logo and title officially registered as trademarks. In order to begin the process, I will need you to complete the two enclosed agreement forms and send them back to me at your earliest convenience. Please fill in sections 1, 2a, 3a & b, and 4-6 for purposes of registering your *conference title (and acronym)*. Please fill in sections 1, 2b, 3a & b, and 4-6 for purposes of registering your *logo*. I have also enclosed an information memo on title and logo registration (including costs and the length of time the entire process requires). If you should have further questions concerning the form or the process, please do not hesitate to give me a call at the above number.

I look forward to receiving your completed agreement forms in the near future. In the meantime, I remain

Sincerely yours,


William J. Hagen, Manager
Copyrights and Trademarks

cc: Ann Burgmeyer



IEEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (201) 981-0060 TELEX 833233 FAX: (201) 981-0027

DIRECT NUMBER (201) 562- 3966

MEMORANDUM

TO: IEEE Entities Interested in Registering Titles or Logos
FROM: William J. Hagen, Manager, IEEE Copyrights and Trademarks
SUBJECT: Title and Logo Registration

Registration is a legal means of asserting ownership of a mark which has **provably been in use "in commerce"** and of providing protection for that mark. While use is a prerequisite to obtaining a registration, it is **not** a prerequisite to filing a trademark application. In order to file an application, a party need only have a *bona fide* intent to use the mark in interstate commerce. However, a registration will not issue until such use takes place. The benefit of filing an intent to use application is that the applicant's filing date serves as its priority date, not the subsequent date of first use.

In the context of IEEE, the "mark" usually is a publication and/or conference title, an abbreviation or a special identifying design like the diamond-shaped IEEE logo at the top of this page. Unlike copyright registration -- a relatively simple process handled by this office and the U.S. Copyright Office -- a registration of a mark is a rather lengthy process handled by this office via our copyright and trademark attorneys Kenyon & Kenyon for a minimum of \$900. Registration via our attorneys includes filing an intent-to-use application (if appropriate) and a search to assure that the mark - or something confusingly similar - is not already in use.

IS REGISTRATION WORTH THE BOTHER? - For some conference and publication titles, especially those in fast moving and competitive areas, every kind of protection should probably be pursued. Registration presumably is a deterrent to the misuse of a mark and certainly provides significant defense if legal action against an infringer becomes necessary. Similarly, such registration will uncover any potential problems and avoid costly litigation.

ARE ALL TITLES REGISTERABLE? - No. Many IEEE titles are made up of what our attorneys call "words of art." This means words or phrases so commonly used in a particular discipline that they have descriptive value only and usually can't be uniquely owned.

WHAT ABOUT ABBREVIATIONS? - An abbreviation may be registerable even if a full title isn't. Registration of an abbreviation doesn't protect the words which have been abbreviated and it locks the sponsor into an obligation to use the registered abbreviation if the sponsor wishes to maintain the benefits of registration, although this does not preclude the sponsor from all use of the full title.

WHAT ABOUT LOGOS? - Logos may be used and registered as trademarks or service marks if they are not likely to cause confusion with any other mark. Like all other marks, a logo must be provably used or a party must have a *bona fide* intent to make such use before an application to register the logo may be filed.

HOW LONG DOES IT TAKE? - At least six months from the filing date. A search (possibly with complications) prior to filing can add two-three weeks.

ARE OTHER FORMS OF PROTECTION AVAILABLE? - Yes. For example: 1) Common law protects titles and logos which are in use, even if they are not registered. 2) The longer continuous and unchanged use can be proved, the stronger the protection. 3) The use of "IEEE" in the title of a conference and on the conference publication offers excellent protection. The stronger the tie to IEEE, the greater the protection. 4) Especially for those conferences seeking extra protection, a signed document is recommended in which the volunteers in charge of a conference and/or publication agree formally that they recognize IEEE's ownership of the conference and/or publication. (For assistance on wording such an agreement, please call me at the above number. There will be careful coordination with TAB or other departments whenever appropriate.)

WHAT ELSE IS IMPORTANT? - Close cooperation between Publishing Services and the sponsor of the mark is essential. Specific information on the type of use and first date of use will be required from the sponsor as will samples of the mark and, in the case of a design, an original drawing. Because of the information and material required and the time and money involved, we will need a signed agreement for each item to be registered. (See attached.) Also, because the registration process is lengthy and can require a number of go/no go decisions along the way, we will also need one authorized (and willing!) contact to speak for each entity. Publishing Services will reciprocate by providing efficient and courteous service, by maintaining careful records and files, and by being available for help and advice should it be needed in the future.

RECOMMENDED PROCEDURE

1. Invite all involved in making the decision on what or how to register to read both this memo and the attached form. (Copies will be sent on request to anyone you specify.)
2. If you would like a preliminary decision as to whether or not something is registerable, call or write this office and we will get a reading from our attorneys.
3. Note that, in addition to the financial commitment you will be making on behalf of your entity, registration also results in an obligation to use the registered mark continuously, carefully and without substantial change if you wish to obtain the full legal benefit of a registration.
4. When you know precisely what you want to register, which of the two registration procedures best suits your needs, have agreed upon a contact Publishing Services can reliably call on when necessary and have whatever information and samples are needed, fill out the form and send it to this office along with appropriate attachments.
5. We will acknowledge receipt and from that point will keep the contact (and any others specified) informed of the progress of the application.
6. All accounting will normally be handled internally with filing fees and attorneys bills charged against the appropriate account of the sponsoring entity. Let us know if further details will be needed and, if so, by whom.
7. When registration has been completed, all who need to know will be advised and information will be given on the future use of the mark.

1991 IEEE Neural Networks Council Document
REGISTRATION AGREEMENT PROCEDURE: The IEEE entity wishing to federally register a mark is asked to read the IEEE Publishing Services memo on Title and Logo Registration and to fill out the form below and on the reverse of this sheet inserting appropriate information and attaching appropriate material. The completed agreement, signed by someone authorized to commit funds, should then be returned to William J. Hagen, Manager, Copyrights and Trademarks, IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. Telephone: (908) 562-3966. Mr. Hagen will also sign a copy and return it to both the person signing and the person designated as Publishing Services' contact.

REGISTRATION AGREEMENT BETWEEN

The Institute of Electrical and Electronics Engineers, Inc.

and

1. _____
(please print/type the name of the IEEE sponsoring entity)
2. The above named IEEE ENTITY, having been informed by IEEE Publishing Services on the cost, time and procedures involved in the registration process, wishes to register the mark noted or described below:

a. The mark (in its entirety as used or intended to be used) printed below:

OR

b. The design described below and depicted in the attached black on white drawing (submitted flat on 8.5 x 11 sheet). (Please check first with Mr. Hagen if a particular color or colors are to be an integral part of the design.)

(please describe the design)

3. a. If the mark has been used, the approximate date of the first use and the approximate date of first use in interstate commerce, and manner of use of this mark were:

(approximate date of first use and date of first use in commerce)

(manner of use)

b. A brief description of the continuous (UNCHANGED) use from "first use" to the present follows and a reproducible sample of the current use on a specimen (in the form of a tag, label, etc.) is attached. If the mark is used in connection with a service, a brochure, newsletter, flyer, etc. depicting this use is attached. (Please advise if help is needed.)

(please describe continuous use)

c. If the mark has not been used, an application may be filed if the IEEE ENTITY has a *bona fide* intention to use the mark in interstate commerce. Please initial here if this is the case: _____

- 4. A brief description of the goods and/or services in connection with which the mark has been or is intended to be used follows:

(please describe goods and/or services)

The method by which Publishing Services will pursue registration is via IEEE attorneys at a minimum cost of \$900. This includes application fees, the search fee, registration fees, and attorney's fees.

- 5. The IEEE ENTITY has authorized the person whose name, address and phone number appear below to act on its behalf throughout the registration process as Publishing Services' contact and has obtained this person's agreement to act as contact:

(name, address and phone no. of authorized contact)

- 6. The authorized signature on behalf of the IEEE ENTITY will be understood as an agreement that the entity: a) has all necessary approvals to authorize this registration; b) will pay all appropriate bills; c) assures appropriate cooperation with Publishing Services via authorized contact; and d) will follow carefully the protocols of registration once registration has been achieved.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE ENTITY

(signature)

(printed name)

(IEEE title)

(date)

- 7. The authorized signature on behalf of IEEE PUBLISHING SERVICES will be understood as an agreement that Publishing Services will: a) follow carefully the reasonable instructions of the ENTITY and its contact; b) check with that contact on each step of the registration process for possible go/no go decisions; c) follow carefully any instructions from IEEE attorneys; d) maintain careful logs and files; and e) assure that help and advice will be available should registration questions or problems arise in the future.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE PUBLISHING SERVICES

(signature)

(printed name)

(IEEE title)

(date)

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Robert J. Marks II Library Archive
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 - a. The mark (in its entirety as used or intended to be used) printed below:

OR

- b. The design described below and depicted in the attached black on white drawing (submitted flat on 8.5 x 11 sheet). (Please check first with Mr. Hagen if a particular color or colors are to be an integral part of the design.)
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(approximate date of first use and date of first use in commerce)

(manner of use)

- b. A brief description of the continuous (UNCHANGED) use from "first use" to the present follows and a reproducible sample of the current use on a specimen (in the form of a tag, label, etc.) is attached. If the mark is used in connection with a service, a brochure, newsletter, flyer, etc. depicting this use is attached. (Please advise if help is needed.)

(please describe continuous use)

- c. If the mark has not been used, an application may be filed if the IEEE ENTITY has a *bona fide* intention to use the mark in interstate commerce. Please initial here if this is the case: _____

1991 IEEE Neural Networks Council Document
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The Institute of Electrical and Electronics Engineers, Inc.

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(please describe continuous use)

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(please describe goods and/or services)

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(name, address and phone no. of authorized contact)

- 6. The authorized signature on behalf of the IEEE ENTITY will be understood as an agreement that the entity:
 - a) has all necessary approvals to authorize this registration;
 - b) will pay all appropriate bills;
 - c) assures appropriate cooperation with Publishing Services via authorized contact; and
 - d) will follow carefully the protocols of registration once registration has been achieved.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE ENTITY

(signature)

(printed name)

(IEEE title)

(date)

- 7. The authorized signature on behalf of IEEE PUBLISHING SERVICES will be understood as an agreement that Publishing Services will:
 - a) follow carefully the reasonable instructions of the ENTITY and its contact;
 - b) check with that contact on each step of the registration process for possible go/no go decisions;
 - c) follow carefully any instructions from IEEE attorneys;
 - d) maintain careful logs and files; and
 - e) assure that help and advice will be available should registration questions or problems arise in the future.

AUTHORIZED SIGNATURE ON BEHALF OF IEEE PUBLISHING SERVICES

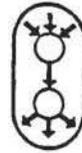
(signature)

(printed name)

(IEEE title)

(date)

TAB 8



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-1-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I enclose a flyer for a conference entitled *International Conference on Artificial Neural Networks in Engineering* to be held November 10-12, 1991 in St. Louis, Missouri. The INNS (Midwest Special Interest Group) is listed as a Co-sponsor. The Singapore IJCNN will be held the week after this conference.

Please note that paragraph 14 of the Agreement between our two Societies states, in part,

BOTH ORGANIZATIONS WILL REFRAIN FROM SPONSORING OTHER MAJOR ACTIVITIES IN THE FIELD OF ARTIFICIAL NEURAL NETWORKS WITHIN ONE MONTH OF EACH IJCNN. BOTH SOCIETIES MUST AGREE TO COOPERATE ON INVOLVEMENT IN ANY MAJOR NEURAL NETWORK CONFERENCE ACTIVITIES HELD WITHIN 30 DAYS OF AN IJCNN.

Since the Council is not participating in the conference, and since the title *International Conference* clearly identifies the intent of the organizers that this be both a major activity and a major conference, there is an apparent violation of the Agreement by the INNS.

I assume that this action took place without the knowledge or approval of the INNS Governing Board. On behalf of the Council ExCom, I call it to your attention with the hope that you will take immediate steps to return to compliance with the Agreement. Doing so, I believe, will make the joint effort of the INNS and the Council in Singapore more successful.

I look forward to your response.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Roy S. Nutter, IOC Chair
Mary Ann DeWald, IEEE Conference Services
*NNC ExCom:

Russ Eberhart, NNC VP
Michael W. Roth, Transactions Ed.
Evangelia Tzanakou, Secretary
Patrick K. Simpson, NNC Treasurer

Free

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Dr. George Lendaris, Finance Chair
'91 Seattle IJCNN
FAX 503-725-4882

Dear George,

I wanted to quickly follow up on our phone conversation. The Agreement between the INNS and the Council states that

SPEAKERS (EXCEPT FOR TUTORIAL SPEAKERS) ARE NOT COMPENSATED FOR THEIR PRESENTATIONS. PLENARY SPEAKERS WILL NORMALLY HAVE THEIR TRAVEL EXPENSES PAID. IN ADDITION, THE GENERAL, CHAIR(S), THE PROGRAM CHAIR(S), AND THE FINANCE CHAIR(S) CAN HAVE THEIR TRAVEL EXPENSES PAID. THE CONFERENCE COMMITTEE WILL SET SPECIFIC ARRANGEMENTS IN ACCORDANCE WITH THE POLICIES OF BOTH INNS AND IEEE. COMPENSATION FOR TUTORIAL SPEAKERS SHALL BE CONSISTENT WITH THE POLICIES OF IEEE AND INNS. INVITED SPEAKERS MAY HAVE THEIR TRAVEL EXPENSES PAID. THE NUMBER OF INVITED SPEAKERS WHO HAVE THEIR EXPENSES PAID SHOULD IN NO CASE EXCEED 1% OF THE BEST ESTIMATE OF THE NUMBER OF CONFERENCE REGISTRATIONS. ALL OTHER EXPENSES REIMBURSEMENTS ARE EXCLUDED UNLESS SPECIFICALLY COVERED BY A LINE ITEM IN THE APPROVED CONFERENCE BUDGET. REGISTRATION FEES FOR KEYNOTE AND PLENARY SPEAKERS ARE WAIVED. REGISTRATION FEES FOR ALL PERSONS WHOSE TRAVEL EXPENSES ARE REIMBURSED BY THE CONFERENCE WILL BE AT THE STUDENT RATE.

As I have informed Dr. Werbos by previous correspondence, the Council has approved a budget with 1250 estimated attendees. Therefore, according to the Agreement, no more than 12 invited speakers can have their way paid. These, and all other expenses must, of course, be included in the budget approved by both the INNS and the IEEE. Note that the Agreement allows for reduction, but not waiving of the registration fee. Deviations from the Agreement can be enacted by joint approval of both the NNC and INNS.

Sincerely,



Robert J. Marks II, President
IEEE Council on Neural Networks

cc: David Rumelhart, IJCNN '91 Chair
Paul Werbos, INNS President
Roy Nutter, IOC Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

From lendaris@eecs.ee.pdx.edu (George G. Lendaris)
Received: from blake.u.washington.edu (blake@blake.u.washington.edu)
(5.61/UW-NDC Revision: 2.1) id AA16974; Tue, 16 Apr 91 10:17:43 -0700
Received: from pdxgate.cs.pdx.edu by blake.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA20208; Tue, 16 Apr 91 10:17:21 -0700
Received: from eecs.ee.pdx.edu (eecs.cs.pdx.edu) by pdxgate.cs.pdx.edu (4.1/pdx-ga
id AA12664; Tue, 16 Apr 91 10:17:10 PDT
Received: from eecs.ee.pdx.edu by eecs.ee.pdx.edu (5.61/pdx-client-evision: 1.14
id AA26968; Tue, 16 Apr 91 10:17:13 -0700
From: lendaris@eecs.ee.pdx.edu (George G. Lendaris)
Message-Id: <9104161717.AA26968@eecs.ee.pdx.edu>
Subject: Need your RESPONSE, ASAP
To: marks@blake.u.washington.edu (Robert J. Marks II)
Date: Tue, 16 Apr 91 10:17:12 PDT
Cc: lendaris@eecs (George G. Lendaris)
X-Mailer: ELM [version 2.3 PL1]
Status: RO

Hi Bob,

By now you have probably heard that last Friday the INNS board voted to "...direct the IJCNN-91 Seattle chairpersons to add at least 200 more papers..."

Larry Jackel and Demetri Psaltis conferred about this over the weekend and Larry spoke with me yesterday. As Program Chairs, they have come to the following decision. There is no practical way to physically carry out the next stage of the review proces that would be needed to go through a selection process to come up with 200 out of the remaining 400 papers. Accordingly, they propose to accept all 400, announce a Supplemetary Poster Session Program, and invite each remaining author to participate. The abstracts for these papers are to be published in the Proceedings.

When I spoke with Sara last Thursday about this impending issue, she told me that since there are fewer exhibitors than she had originally been told to expect, there is substantially more space available in the Convention Center for Poster Sessions than previously predicted. This aspect was picked up at the Board meeting, and a rationale suggested was to use this as an avenue for announcing expansion of the Poster Sessions.

The INNS Board instructed me to get permission from the IEEE for the increased costs to be incurred. Sara is preparing an informal addendum to their Agreement with us to factor this extra work in. There was trouble with our incoming phone lines here at PSU yesterday, so I didn't make contact with IEEE re. the increased cost for printing the extra abstracts. I will do my best to get this information today.

Here are my predictions for the increased costs associated with accepting the additional 400 papers.

Publishing:	\$6000 to \$8000
Meeting Management:	\$2500 to \$5000
Poster boards:	\$600

Total: approx. \$9,000 to \$13,000

To stay consistent with the previous process of allowing presenters to register at the early fee of \$195 (up to an extended deadline of April 15), I am proposing that we allow these presenters to also register at the early rate of \$195 up to an extended deadline of May 10th. If the 400 invitations yield 100 registrants that would not have come otherwise, this will increase revenue by \$19,500. This should more than cover the costs indicated above (and the associated

1991 IEEE Neural Networks Council Document, Meeting
Management fees, reception, etc. Put your thumb
Robert J. Marks II Library Archive
that for each 100 new papers being presented, an additional 200
people will register, at the present rate of \$295, this implies
additional revenue of \$59,000.

Well, we could play lots of numbers games here, but the bottom line
is, do we want to gamble on the estimated \$13,000 of increased
expenses?

I need your (written) permission for this item AS SOON AS POSSIBLE.
If we are to accomplish this process, I need to have your permission
in the next day or two.

I will call and talk to you personally. I am sending you the above
info. in writing to (hopefully) make it easier for you to keep track
of the various details.

Thanks.
....George.

TAB 9

From @UWAVM.U.WASHINGTON.EDU:RCE1@APLVM.BITNET Mon Apr 15 06:23:33
1991
Received: from uwavm.u.washington.edu by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA18276; Mon, 15 Apr 91 06:23:31 -0700
Message-Id: <9104151323.AA18276@milton.u.washington.edu>
Received: from UWAVM.U.WASHINGTON.EDU by UWAVM.U.WASHINGTON.EDU
(IBM VM SMTP R1.2.2MX) with BSMTP id 5225; Mon, 15 Apr 91 06:21:18 PDT
Received: from APLVM.JHUAPL.EDU by UWAVM.U.WASHINGTON.EDU (Mailer R2.04)
with
BSMTP id 7559; Mon, 15 Apr 91 06:21:18 PDT
Received: by APLVM (Mailer R2.02A) id 5659; Mon, 15 Apr 91 09:19:50 EDT
Date: Mon, 15 Apr 91 09:18:24 EDT
From: Russ Eberhart <RCE1%APLVM@UWAVM.U.WASHINGTON.EDU>
Subject: INNS Board Meeting Results
To: Bob Marks <MARKS@MILTON.U.WASHINGTON.EDU>
Status: RO

Following are the results of the INNS Board meeting on Friday, April 12, as I understand them from a conversation this morning (Monday) with Paul Werbos:

Item 1:

The agreement (termination agreement) was ratified unanimously with two minor amendments:
1) The clause re: 400 people at a meeting is changed to read "no more than 400 participants in one place." This has to do with video tapes and video conferencing.

2) The organization of Beijing '92 is as follows:

Organizing Chair: Zong Sha
Conference Co-chairs: Amari and Wu
Program Co-chairs: Zhong and Szu

Item 2:

The Seattle budget was approved. The Singapore budget wasn't because they (the INNS) doesn't seem to have a copy. I am sending a copy today to Morgen Downey. The Baltimore budget was approved with one amendment: the INNS wants the pre-April 20 registration fee for IEEE and INNS members to be reduced from \$245 to \$195. I suggest we defer action on this item until Seattle.

Item 3:

Rumelhart is out of the hospital. Therefore, Paul didn't suggest anyone coming on board pro-tem to help. The motion was passed unanimously, however, that a minimum of an additional 200 posters be accepted for Seattle, subject to IEEE approval of the additional cost. There was some talk of admitting all 400 additional papers. I object to this on cost and quality grounds. I believe that 200-250 is in the right ball park, and I suggest that IEEE approve those expenses required to accept no more than 250 additional posters. I suggest that our ExCom act on this, after the meetings committee has a crack at it, if possible.... however, time is of the essence...let ExCom handle it if needed. Supposedly, Sarah Eck has a ranked list from each paper refereeing group that can be used to select the additional papers, perhaps based on highest percentile rank received by the paper.

Russ

(portions deleted by Bob Marks)

From CLAU@A.ISI.EDU Wed Apr 17 10:51:03 1991
Received: from A.ISI.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA06433; Wed, 17 Apr 91 10:50:56 -0700
Date: Wed 17 Apr 91 13:50:19-EDT
From: Cliff Lau <CLAU@A.ISI.EDU>
Subject: IJCNN-92 reg fee
To: marks@u.washington.edu
Cc: clau@A.ISI.EDU
Message-Id: <12678265118.30.CLAU@A.ISI.EDU>
Status: O

Bob Marks, I bump into Paul Werbos yesterday and he said that INNS has voted on the IJCNN-92 Baltimore budget but demanded that the registration fee be divided into three time periods (pre-pre, pre, and post) instead of the two (before and after) that I proposed in the budget. Does that mean I should prepare another budget projection based on this different reg. fee structure? Also does that mean the revised projection would have to be approved again? I am concern that INNS is trying to micro-manage the conference. If that were the case, they can find someone else to organize it.
Best regards, Cliff Lau sends.

#####

Clifford,

I have not been officially informed by the INNS of this vote. I, also, have concerns about this.

Please proceed with the original budget until the Council makes a ruling otherwise. This includes call for papers and other publicity. The earliest the matter could be considered is at the IJCNN Oversight Committee in Seattle. I believe the Council will oppose the suggestion, unless there is some reason I don't see.

If the subject comes up again, ask that a letter be sent to me or Roy Nutter (the Oversight Chair). According to our Agreement, Budgets are submitted by the lead society - not the conference chair . Any INNS objections should thus be aimed at the Council, and not at the conference chair.

I am forwarding a copy of this correspondance to Roy Nutter & Russ Eberhart.

Best regards,

Bob Marks

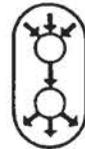
From @UWAVM.U.WASHINGTON.EDU:RCE1@APLVM.BITNET Wed Apr 17
05:20:53 1991
Received: from uwavm.u.washington.edu by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA18453; Wed, 17 Apr 91 05:20:47 -0700
Message-Id: <9104171220.AA18453@milton.u.washington.edu>
Received: from UWAVM.U.WASHINGTON.EDU by
UWAVM.U.WASHINGTON.EDU (IBM VM SMTP R1.2.2MX) with BSMTP id 0821;
Wed, 17 Apr 91 05:18:37 PDT
Received: from APLVM.JHUAPL.EDU by UWAVM.U.WASHINGTON.EDU (Mailer
R2.04) with
BSMTP id 4885; Wed, 17 Apr 91 05:18:36 PDT
Received: by APLVM (Mailer R2.02A) id 6534; Wed, 17 Apr 91 08:20:06 EDT
Date: Wed, 17 Apr 91 08:19:13 EDT
From: Russ Eberhart <RCE1%APLVM@UWAVM.U.WASHINGTON.EDU>
Subject: Re: ExCom#3
To: Robert Marks <marks@u.washington.edu>
In-Reply-To: Your message of Tue, 16 Apr 91 15:13:17 -0700
Status: R

I've received a request from Pat Reilly for travel support to one of his committee meetings...I recommend that you approve his request.

Russ



NEURAL NETWORKS COUNCIL



Michael W. Roth, Editor
IEEE TRANSACTIONS ON
NEURAL NETWORKS
The Johns Hopkins University
Applied Physics Laboratory
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Laurel, Maryland 20723-6099 USA
(301) 953-6543
Fax: (301) 953-1093

April 8, 1991

Valerie Cammarata
IEEE Publications
345 East 47th Street
New York, New York 10017-2394

Subject: TNN Page Usage for the Remainder of 1991

Reference: 1. Letter from Ms. V. Cammarata to Dr. M. W. Roth
dated 19 March 1991.

Dear Valerie:

In accordance with the 1991 page budget of 640 pages and the fact that the first two issues used 340 pages, the remaining four issues for 1991 will be constrained to approximately 75 pages each. This is consistent with the current flow of manuscripts and presents little or no burden to the Transactions on Neural Networks.

Very truly yours,
Original Signed By
M. W. Roth

Michael W. Roth

cc:

R. J. Marks II
P. K. Simpson

TAB 12



IEEE

TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TELEX 833-233

OFFICE OF THE STAFF DIRECTOR

(201) 562-3900

DATE: April 5, 1991
TO: Presidents & Treasurers, All Societies/Councils
FROM: Irving Engelson, Staff Director
SUBJECT: Request for 1992 Budget Inputs

Executive Summary

Your Society/Council 1992 Budget proposals are due at the IEEE Technical Activities Department no later than May 15, 1991.

Based on a methodology approved by the TAB Finance Committee, the IEEE Technical Activities Staff has generated a proposed budget for your consideration -- this is shown as IEEE Forecast. You may override any of these numbers by recording your entries in the column marked S/C Budget. Questions should be addressed to Tania Skrinnikov, Finance Manager, at (908) 562-3860.

Detailed Information

As a first step toward generating the preliminary 1992 S/C budget estimates in time for submission for various approvals, please let us know of your 1992 budgetary plans prior to May 15, 1991.

To provide your 1992 budget inputs, it is suggested that you pay particular attention to any contemplated major deviations from the 1990 actuals and 1991 budget. Examples of major changes about which we **must** be notified at this first input include the following:

- o Change in Society Membership Fee
- o Change in Non-Member List Price
- o Substantial change in the number of published pages
- o Change in number of issues of existing publications
- o A new publication

The enclosed IEEE S/C Budget Input Information and IEEE S/C Budget provide four categories of information:

- 1) A five-year history of budgeted and actual values
- 2) The current 1992 budget.
- 3) "1992 IEEE Forecast" column which is based on prior year actuals and the 1991 budget.
- 4) "1992 S/C Budget" column which is provided to Treasurers for modification of the "IEEE Forecast". If you agree with the Headquarters' forecast, you do not need to make any entry in this column. Please tell us of this decision.

IEEE S/C BUDGET INPUT INFORMATION

This set of forms includes:

- 1) INPUT INFORMATION (IEEE generated, common to all S/C's, Page 0.01)
- 2) S/C MEMBER STATISTICS & SURPLUS/RESERVE ANALYSIS (S/C specific, Page 0.02)
- 3) S/C MEMBERSHIP, FEES, & PUBLICATION STATISTICS (one page per publication - Pages 0.03-1, 2, etc.) (See further explanation on "SUMMARY BUDGET PARAMETER EXPLANATION")

IEEE S/C BUDGET

This form has been designed to match the financial statements which are mailed bi-monthly to Presidents, Treasurers, Financial Officers, and Editors. Project description, account numbers, budget (B) and actual (A) values correspond to the financial statements. The 1992 IEEE Forecast has been generated using calculations or algorithms and is based on the 1991 budget and earlier year actual data.

When reporting budgeted conference finances, please submit TOTAL income and TOTAL expenses, not net.

We urge Treasurers, in consultation with other appropriate S/C officers, to review the IEEE generated budgeted forecast and to make override changes by entering such changes in the last column which is labeled "1992 S/C Budget". If you communicate no changes to Headquarters, we will use the "1992 IEEE Forecast" as your 1992 S/C budget.

GUIDELINES FOR NON-MEMBER SUBSCRIPTION RATES

In an effort to provide greater flexibility to Societies in setting the non-member subscription rates for their Transactions, Journals, Magazines, the TAB Finance Committee approved the following flexible formula which allows each Society to set its own non-member rates according to guidelines. If a Society wishes to propose a non-member rate which falls outside of these guidelines, then an explanation for the deviation should be included for TAB Finance Committee consideration. The final decision on rates rests with the IEEE Executive Committee and Board of Directors.

The base non-member price in dollars for 1992 is computed using the formula:

$$\text{Base Price} = 2.0N + 4.2 \sqrt{P}$$

where N is the number of issues per year and P is the number of equivalent yearly pages (one equivalent page is defined as one fully-edited page or two author/camera ready pages). For economies in printing, it is recommended that the actual number of pages be multiples of 16. Each S/C has the option of changing the individual non-member rate. However the rate may not exceed 1.25 times the formula base price, nor should any change exceed 20% of the current rate.

For your ready reference, a table of non-member formula calculated base prices for various numbers of equivalent pages and number of issues is enclosed.

It should be noted that allocation of the All Periodicals Package income among the S/C periodicals is based in part on the base price or the list price, whichever is lower.

RESPONSE FORM DEADLINE

In order to meet the target dates of the budget cycle, please return the enclosed IEEE S/C Budget Authorization Form by May 15, 1991 to:

Ms. Tania Skrinnikov
Finance Manager
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

If you have any questions, please call Ms. Skrinnikov at (908) 562-3860, FAX (908) 562-1571, or E-Mail: t.skrinnikov@ieee.org.

cc: TAB Finance Committee (w/o enclosures)
T. Skrinnikov

ENCLOSURES

- 1) IEEE S/C Budget Authorization Form
- 2) Base Price Table for 1992 Periodicals for a Given Number of Issues and Equivalent Pages
- 3) Summary of Budget Parameter Explanation
- 4) IEEE S/C 1992 Budget

TAB 13

1991 IEEE Neural Networks Council Document
 WORKED IN INTELLIGENCE 1991
 Robert J. Marks II Library Archive
Potential Dates & Locations

	<u>San Francisco</u>	<u>San Diego</u>	<u>Washington DC</u>
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON HARBOR ISLAND	THE WASHINGTON HILTON
Dates -----	not 7/29-8/10 ^{available} 2nd Option 8/23-9/4 2nd Option 8/30-9/10 2nd Option	6/5-15 1st Option ① 8/7-17 1st Option 8/27-9/6 1st Option ^{not available} 6/11-21 2nd Option 7/9-19 2nd Option 7/16-26 2nd Option	6/16-30 1st Option 7/1-7 1st Option 6/9-21 2nd Option 7/8-15 2nd Option 8/1-13 2nd Option
Room Rates ----	Single - \$150 Double - \$170 *****	Single - \$90 Double - \$105 *****	Single - \$130-\$150 (June) \$ 90-\$111 (July) \$ 85-\$105 (Aug.) Double - \$150-\$170 (June) \$110-\$130 (July) \$105-\$125 (Aug.) *****
Hotel -----	HYATT REGENCY	TOWN & COUNTRY RESORT	SHERATON WASHINGTON
Dates -----	6/1-13 2nd Option 6/10-22 2nd Option 8/13-31 2nd Option	7/5-20 1st Option 6/19-30 2nd Option	7/13-21 2nd Option 8/17-25 2nd Option
Room Rates ----	Single - \$135 Double - \$155 *****	Single - \$78-104 Double - \$88-114 *****	Single - \$145-\$165 Double - \$170-\$190 *****

*Quoted room rates are 1991 rates

To: Bob Marks
 (206) 543-3842

4/11/91

1991 IEEE Neural Networks Council Document
 FUZZY LOGIC SYSTEMS 1993
 Robert J. Marks II Library Archive
Potential Dates & Locations

	<u>San Francisco</u>	<u>Honolulu</u>	<u>Detroit</u>
Hotel -----	HYATT REGENCY	HILTON HAWAIIAN VILLAGE	HYATT REGENCY
Dates -----	4/23-29 2nd Option	4/24-29 1st Option 4/17-23 2nd Option 3/27-4/1 2nd Option	4/24-29 1st Option
Room Rates ---	Single - \$135 Double - \$155	Single - \$150-220 Double - \$150-220	Single - \$120 Double - \$120
	*****	*****	*****
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON WAIKIKI	WESTIN
Dates -----	<i>not available</i> 5/8-14 2nd Option	3/27-4/1 1st Option	4/24-29 1st Option 3/27-4/1 1st Option
Room Rates ---	Single - \$155 Double - \$175	Single - \$175 Double - \$175	Single - \$89 Double - \$99
	*****	*****	*****
Hotel -----	WESTIN ST. FRANCIS		
Dates -----	4/17-23 1st Option		
Room Rates ---	Single - \$109 Double - \$170 (deluxe)		

Hotel -----	SAN FRANCISCO HILTON		
Dates -----	4/24-29 1st Option		
Room Rates ---	Single - \$140-\$165 Double - \$155-\$175		

*To: Bob Marks
(206) 543-3842*

4/11/91

*Quoted room rates are 1991 rates

TAB 14



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 236411

DIRECT NUMBER (212) 705-

April 1, 1991

TO: **Editors/Magazines and Newsletters of IEEE Societies**

FROM: **Frederick H. Dill/Chairman, IEEE Edison Medal Committee** *FHD BL*

SUBJ: **CALL FOR NOMINATIONS - 1992 IEEE EDISON MEDAL**

I would appreciate it if you would insert an announcement along the following lines in your magazine or newsletter to encourage your Society members to nominate candidates for the 1992 IEEE EDISON MEDAL:

NOMINATIONS INVITED FOR 1992 IEEE EDISON MEDAL

The IEEE EDISON MEDAL was established by our predecessor Society, the AIEE, in 1904. It is presented for "a career of meritorious achievements in electrical science or electrical engineering or the electrical arts." The award consists of a gold medal, small gold replica, certificate and \$10,000. IEEE members are strongly encouraged to submit candidates for consideration for this prestigious award and thereby support the Institute's program of recognition for outstanding technical achievement. Nominations must be received at IEEE Headquarters no later than July 1, 1991. Nomination forms and information may be obtained by contacting: Maureen Quinn, IEEE Awards Board Administrator, 345 E. 47th St., New York, NY 10017. Tel (212) 705-7882; Fax (212) 223-2911.

For your information, an abbreviated list of recipients and citations (past five years) is shown below.

Many thanks for your cooperation in this effort.

MFQ:bl

cc: Society Presidents/Division Directors
Society Award Committee Chairmen

Awards and Recognitions Committee Chairmen: EAB, RAB, STB, TAB, USAB
Dr. Fred Sterzer/Chairman, IEEE Awards Board

IEEE EDISON MEDAL RECIPIENTS

- 1987/ROBERT E. HENLE: "For sustained leadership in, and individual contributions to, the science and technology of semiconductor circuits for computing systems."
1988/JAMES ROSS MACDONALD: "For seminal contributions to solid state science and technology, and outstanding leadership as a research director."
1989/NICK HOLONYAK, JR.: "For an outstanding career in the field of electrical engineering with contributions to major advances in the field of semiconductor materials and devices."
1990/ARCHIE W. STRAITON: "For an outstanding career in electrical engineering with significant contributions in the fields of radio propagation and astronomy, and in engineering education."
1991/C.Chapin Cutler, John O. Limb, Arun N. Netravali: "For the invention and development of predictive coding of pictures and picture sequences."



IEEE

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345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 236411

DIRECT NUMBER (212) 705-

April 1, 1991

Dear IEEE Colleague:

I'd like your help in increasing the number of candidates nominated for the IEEE Founders Medal.

The Founders Medal is granted for "Major Contributions" in the leadership, planning and administration of great value to the electrical and electronics engineering profession". Among the 30 awardees since 1953 have been David Sarnoff, David Packard, Donald G. Fink, Jerome Wiesner, William Norris, James Owens and Ian M. Ross.

Requested Action - Please review the possible candidates credentials with your colleagues and submit one or more nominations by July 1, 1991. Call Maureen Quinn or Terry Arcati at Headquarters (212) 705-7882 if you need assistance or forms.

QUALIFIED CANDIDATES NOT SELECTED FOR 1992 MAY WELL BE CARRIED FORWARD FOR RECONSIDERATION IN 1993 ... So your efforts will be doubly rewarding.

Thanks for your help,

David F. Barbe ^{BL}

David F. Barbe, Chairman
Founders Medal Committee

cc: Society Presidents/Division Directors
Society Award Committee Chairmen
Society Transactions, Magazine and
Journal Editors
United States Activities Board
USAB Awards and Recognition Committee
Dr. Fred Sterzer, Chairman, IEEE Awards Board

TAB 15

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Applied Physics Laboratory
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IEEE Transactions on Neural Networks

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TAB 14



IEEE

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345 EAST 47TH STREET, NEW YORK, N.Y. 10017-2394, U.S.A. TELEX 236411

DIRECT NUMBER (212) 705-

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Dr. Fred Sterzer/Chairman, IEEE Awards Board

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1989/NICK HOLONYAK, JR.: "For an outstanding career in the field of electrical engineering with contributions to major advances in the field of semiconductor materials and devices."
1990/ARCHIE W. STRAITON: "For an outstanding career in electrical engineering with significant contributions in the fields of radio propagation and astronomy, and in engineering education."
1991/C.Chapin Cutler, John O. Limb, Arun N. Netravali: "For the invention and development of predictive coding of pictures and picture sequences."



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Journal Editors
United States Activities Board
USAB Awards and Recognition Committee
Dr. Fred Sterzer, Chairman, IEEE Awards Board

TAB 15

April 10, 1991

IEEE Council on Neural Networks:

Ex Com (1991)

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IEEE Transactions on Neural Networks

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(vacant)

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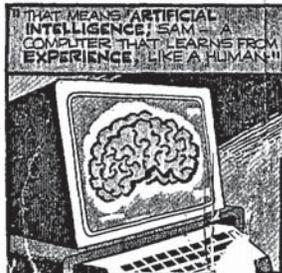
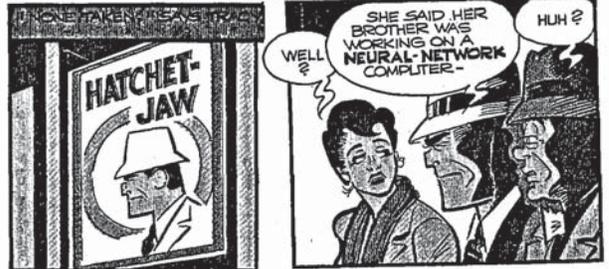
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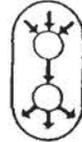
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Dick Locher and Max Collins







NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

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April 19, 1991

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Including this page, this FAX has 7 pages.

7

To NNC ExCom Members,

Attached is an addendum to the agenda for our ExCom meeting.

Sincerely,

A handwritten signature in cursive that reads "Bob" with "R. J. Marks II" written in smaller letters underneath.

R. J. Marks II, President
IEEE NNC

cc: Standing Committee Chairs

Fax: (206) 543-3842

Professor Robert J. Marks II
President
IEEE Neural Network Council
University of Washington
Department of Electrical Engineering
Seattle, WA 98195
USA

April 17, 1991

Dear Professor R.J. Marks,

This fax duplicates the letter sent to you on March, 28 and is in fact in reply to your fax to R. Hecht-Nielsen (April 4, 1991).

I appeal to you by recommendation of Prof. Robert Hecht-Nielsen.

Prof. R. Hecht-Nielsen advised me to organize in Rostov a small conference on neural networks in 1992 (30-th anniversary of our Institute) and a larger one in Moscow in 1995.

According to these advices I appeal to you with the following (multiple-!) applications. All of them are indeed valid in a case you would be inclined to begin a cooperation with us. Our suggestions and applications follow below in some natural order.

1. NAME OF THE MEETING:

1992 IEEE Rostov-on-Don International Symposium on
Neuroinformatics and Neurocomputers.

2. Purpose of the Symposium:

Communication of new neural network research results with emphasis on the Eastern European region.

3. Anticipated Attendance:

200 from the USSR and 100 from other countries.

4. Should you agree to cooperate with us, we see the following your actions be necessary in order to be able to have the meeting:

* Official letter, offering IEEE cooperation/participation for this meeting (we need this letter quickly so that we can secure necessary preparations at local authorities and Government levels).

* Insertion of the following announcement in all major IEEE publications (Spectrum magazine, IEEE Proceedings, IEEE Transactions on Neural Networks, etc.):

1992 IEEE Rostov-on-Don International Symposium on
Neuroinformatics and Neurocomputers, Rostov-on-Don, USSR,
4-6 October, 1992

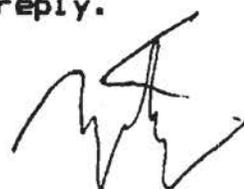
six-page camera-ready papers on 8.5"x11" sheets with 1" margins
must be submitted no later than 24 December 1991

Contact:
Professor Witali L. Dunin-Barkowski
Director
Neurocybernetics Research Institute
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Fax: (8632)244311
Telex: 123228 TEMR

- * Supply at least two IEEE Neural Network Council advisors to assist with organization of the meeting and with the on-site running of the meeting in October, 1992.
- * Arrange for after-symposium sale of the symposium proceeding, which will be printed by Rostov State University (using IEEE guidelines and format - please, supply these!) with 100 extra copies to be delivered to the IEEE Press for after-symposium sales.
- * Publication of a full-page call for papers in the IEEE Transactions on Neural Network once each during the Summer and Autumn of 1991. We will supply a camera-ready copy at the call for papers by 1 May 1991.

Please, let us know if our appeal is suitable for you. Me and my colleagues are waiting impatiently for your reply.

Sincerely yours,



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General Motors Research Laboratories

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April 17, 1991

Mr. Robert J. Marks, II
President IEEE Neural Networks Council
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[Nov 3-6-91]

Dear Mr. Marks,

The Intelligent Vehicle Subcommittee has been formed in 1989 in the IEEE Industrial Electronics Society, and it has been organizing international meetings once every year. In 1990, we had 120 people to discuss "Vision-Based Vehicle Guidance". A call for papers for the 1991 meeting on "Fuzzy and Neural Systems, and Vehicle Applications" is enclosed for your information. The first draft for the 1992 meeting which will be held on July 1 and 2 in the Detroit area is also attached.

Although we were interested in asking cooperation from your society in the earlier stage, we hesitated to do so because we did not know whether this new subcommittee could start successfully. Now we think that our subcommittee is taking off and we feel comfortable in asking your cooperation without worrying about any possible negative impact to your society's reputation. For example, the 1990 meeting was accepted very well and an extended version of the proceedings will be published as a book from Springer-Verlag this fall. We are getting positive reactions to the 1991 meeting from various institutions including Ford, Benz, Fiat, Peugeot, Toyota, Nissan, Honda, Hitachi, SRI, CalTech, MIT, and other major contributors in this field.

Would you please give your cooperation to the 1992 meeting to make the meeting successful? No financial support is expected from your society. If you have any questions or suggestions, please do not hesitate to contact me. Thank you very much, in advance, for your consideration.

Sincerely Yours,

Ichiro Masaki, Funding Chairperson
Intelligent Vehicle Subcommittee, IEEE/IES

Please reply to:
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Phone: 313-986-1466, Fax: 313-986-9356
CSNET:MASAKI@GMR.COM

CC: Robert A. Begun, President of the IEEE/IE Society



Let's Get It Together
SAFETY BELTS SAVE LIVES

CALL FOR PAPERS AND SPECIAL SESSION PROPOSALS

Intelligent Vehicles '92

July 1 and 2, 1992, Suburbs of Detroit, USA

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: ????????????????

The IEEE/IES Intelligent Vehicle Subcommittee is organizing international meetings once every year. In 1991, for example, an international meeting was held on "Fuzzy and Neural Systems, and Vehicle Applications" in Tokyo. The meeting in 1990 was on "Vision-Based Vehicle Guidance". This year we are planning to have multiple special sessions.

Topics:

- Sensing for Intelligent Vehicles
 - Collision Avoidance
 - Road Following
- Control for Intelligent Vehicles
 - Fuzzy Logic
 - Neural Nets
 - Intelligent Power Train Controller
- Communication for Intelligent Vehicles
 - Real-Time Traffic Control
 - Navigation
- Intelligent Control for Electric Vehicles

Deadlines: December 1, 1991 for one-page abstracts
February 1, 1992 for acceptance notices
April 1, 1992 for camera-ready papers

Please send your business card (or a card with your address, phone, fax, and e-mail) together with the following reply to

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30500 Mound Road, Warren, Michigan, 48090-9055, USA
Phone: (USA) 313-986-1466, FAX: (USA) 313-986-9356
CSNET:MASAKI@GMR.COM

Reply for Intelligent vehicles '92:

- A proposal for a special session is enclosed.
- I intend to submit a paper.
- I am interested in attending the meeting.
- Put my name on the mailing list.

CALL FOR PAPERS

Fuzzy and Neural Systems, and Vehicle Applications '91

November 8, 1991, Tokyo, Japan

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: IEEE Industrial Electronics Society
Japan Society for fuzzy Theory and Systems
Society of Instrument and Control Engineers
Robotics Society of Japan

The International Roundtable Discussion on "Fuzzy and Neural Systems, and Vehicle Applications" is scheduled for November 8, 1991 at the University of Tokyo. The focus of this roundtable discussion will include:

- (1) applications of neural nets and fuzzy logic to vehicles including automobiles, aircraft, and trains.
- (2) relationship between neural nets and fuzzy logic.

Presentations of on-going projects as well as completed projects are welcome to stimulate the discussions.

One-page abstract due by May 1, 1991 to Ichiro Masaki.

The date for acceptance notices is June 1 and the deadline for camera-ready full papers is August 1.

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(continued on the back.....)

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Related conferences include:

IROS (International Workshop on Intelligent Robots and Systems),
Nov. 3-5, 1991 in Japan, contact:
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University of Osaka, Engineering Science, Toyonaka, Osaka, 560, Japan

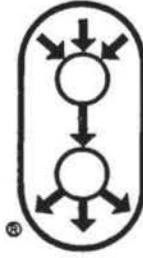
IFES (International Fuzzy Engineering Symposium)
Nov. 13-15, Japan, contact:
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Siber Hegner Building 3Fl., 89-1 Yamashita-cho, Naka-ku, Yokohama, 231, Japan

For further information on the "Fuzzy and Neural Systems, and Vehicle Applications '91", please send your business card (or a card with your address, phone, fax, and e-mail) together with the following reply to

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- _____ I intend to submit a paper to the Fuzzy-Neural-Vehicle '91
- _____ I am interested in attending the Fuzzy-Neural-Vehicle '91
- _____ Put my name on your mailing list.



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◆ Ad Com ◆

◆ Standing Committee Meetings ◆

◆ IJCNN Oversight Committee ◆

WASHINGTON STATE CONVENTION & TRADE CENTER

JULY 7-9, 1991



June 15, 1991

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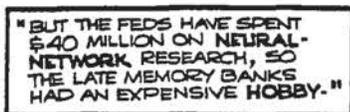
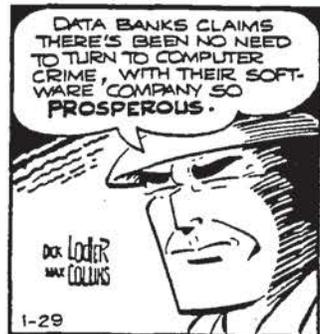
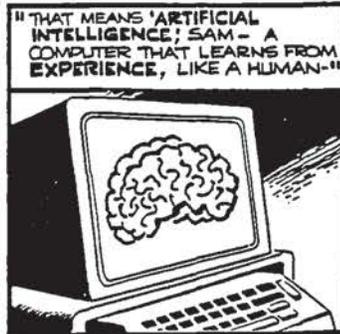
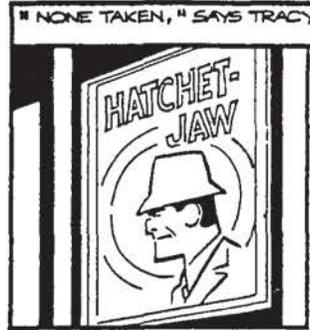
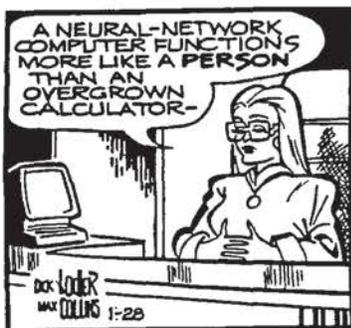
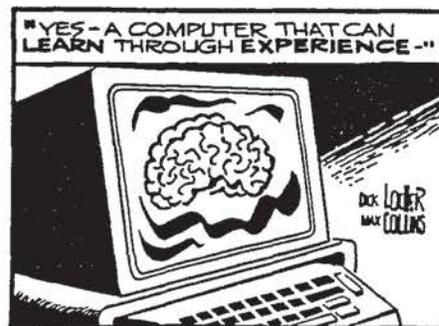
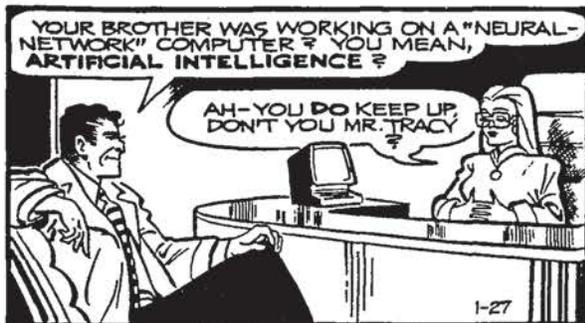
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Dick Locher and Max Collins



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MAX COLLINS



Proposed Agenda
NNC Meetings Committee
Roy S. Nutter, Chair
Washington State Convention & Trade Center, Room 602
Sunday, July 7, 1991, 6 PM

- ◆ Greetings
- ◆ Adoption of Agenda
- ◆ Action Items
 - NNC Forum Proposals (Nutter) ⇒TAB 19 ⇒
 - Future Meeting Dates (Marks) ⇒TAB 20 ⇒
 - FUZZ-IEEE '92 Budget ⇒TAB 21 ⇒
 - Intelligent Vehicles '92 (Marks) ⇒TAB 22 ⇒
 - Russian Conference (Marks) ⇒TAB 23 ⇒
- ◆ Information Items
 - Conference Services from IEEE (Marks) ⇒TAB 24 ⇒
 - IEEE CONNOE (Simpson) ⇒TAB 25 ⇒
- ◆ Other Business
- ◆ ADJOURN

APPENDICES

- TAD Information ⇒TAB 26 ⇒
- NNC ExCom Minutes*
 - * February 7, 1991 ⇒TAB 27 ⇒
 - * April 22, 1991 ⇒TAB 28 ⇒
- NNC AdCom Members ⇒TAB 29 ⇒

TAB 1



IEEE

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June 20, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
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RE: Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

As of today, I have received the following nominations for the 1992 officers of the IEEE Neural Networks Council:

For President: Russell Eberhart

For Vice-President: Patrick K. Simpson

For Treasurer: Roy Nutter

For Secretary: Tushio Fukuda

Don Brown

All nominations have been seconded.

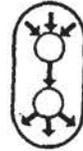
Please let me know if you have any questions concerning these nominations.

Best wishes,

A handwritten signature in black ink, appearing to read "H. Vincent Poor".

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
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3-26-91

Dear NNC AdCom Members:

Greetings!

A great deal is happening in the Council. First, some

ANNOUNCEMENTS

◆ AdCom

The AdCom and related meetings of the *Neural Networks Council* will be held at the Seattle IJCNN in the *Washington State Convention & Trade Center*. The Center is located in downtown Seattle and is the sight for the Seattle IJCNN. The meeting room locations will be announced in the mailing you will be receiving at the end of June.

Sunday, July 7, 1991

2-5 PM	IJCNN Oversight Committee	Roy Nutter, Chair
2-5 PM	NNC Awards Committee	Brad Dickinson, Chair
6-9 PM	NNC Standards Committee	Walter Karplus, Chair
6-9 PM	NNC Meetings Committee	Roy Nutter, Chair
6-9 PM	NNC Publications Committee	Toshio Fukuda, Chair

Monday, July 8, 1991

9 AM - 4PM	NNC AdCom*	Bob Marks, President
------------	------------	----------------------

◆ Officer Nominations

Nominations for Council Officers for 1992 should be sent to

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(cont.)

* We will recess for a light lunch. Hopefully, we will finish well before 4:00.

The four elected officers of the Council are President, Vice President, Treasurer and Secretary. All nominations must be seconded. According to our Constitution ...

'The voting members will be:

- a. Two representatives to be appointed by each Member Society.
- b. The President, Vice-President, Secretary and Treasurer
- c. The most recent available immediate past President of the Council.'

Only AdCom members are eligible to nominate and second nominations. Officer elections will be conducted by written ballot at our Seattle AdCom meeting.

◆ Hard Copy Submissions for AdCom

I will be mailing copies of material related to the Council AdCom and Standing Committee meetings to you in late June. Any material you wish included in this mailing (*e.g.* officer reports, standing committee reports and motions) must be in my hands by Thursday, June 20.

SOME UPDATES & INFORMATION ITEMS

◆ Standards Committee

As you know, the Council established the Standards Committee as a Standing Committee of the Council at our last AdCom. I'm delighted to inform you what Walter Karplus has accepted the Chair of this Committee. Queries concerning the Committee should be addressed to him at

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◆ New AdCom Members

Since we last met, the following AdCom members have been appointed by their member Societies.

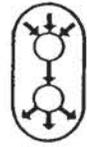
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6-20-91

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I have made the following appointments and hereby request the consent of the AdCom on their appointment.

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Video Tutorials Chair	Mohamed El-Sharkawi
NNC Representative to the TAB Newsletter Committee	Wes Snyder

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Marks II' with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

TAB 4



TO: IEEE Colleagues
FROM: H. Troy Nagle
DATE: June 13, 1991
SUBJECT: Assembly Petition Signatures

On the petition deadline (May 31, 1991), I submitted a total of 816 petition signatures to IEEE Headquarters. After verification by staff, only 771 survived. The required number to get the petition on the ballot was 812!!

I have asked the Executive Committee to allow me to continue to collect signatures until the end of 1991 to qualify the issue for the 1992 fall ballot. Therefore, I am asking volunteers who support this issue to help me continue the signature collection process for next year. If the ExeCom accepts my request, only about 50 more signatures are needed (I have about 15 of them already!). If the ExeCom denies my request, then signatures during the period June 1, 1991, to May 31, 1992, would be allowed for next year. In either case, the continued signature drive seems appropriate.

Attached please find a slightly revised petition form. I have added a diagram to back of the form to make the job of explaining the complex situation a bit easier.

Many thanks to everyone who helped collect signatures in March, April, and May. Please help me give it another try next year!!

H. Troy Nagle

Let the IEEE Members Decide!!

Background

At the annual November meeting of the IEEE Board of Directors, the Assembly (a body consisting of the ten Region Directors, ten Division Directors, President, Past President, and President-Elect) holds its annual meeting. At this annual meeting, the Assembly (a subset of the Board of Directors) elects the Vice Presidents for Technical Activities, Regional Activities, Educational Activities, Professional Activities, and Publications Activities, as well as the Treasurer, Secretary, and Director of Standards Activities for the next calendar year. See the diagram below for a view of the process. All eight of these Institute officers also serve as members of the Board of Directors. In other words, the members of the Board of Directors in the current year who are members of the Assembly are allowed to elect themselves to the next year's Board. This makes the Assembly election process very politically charged.

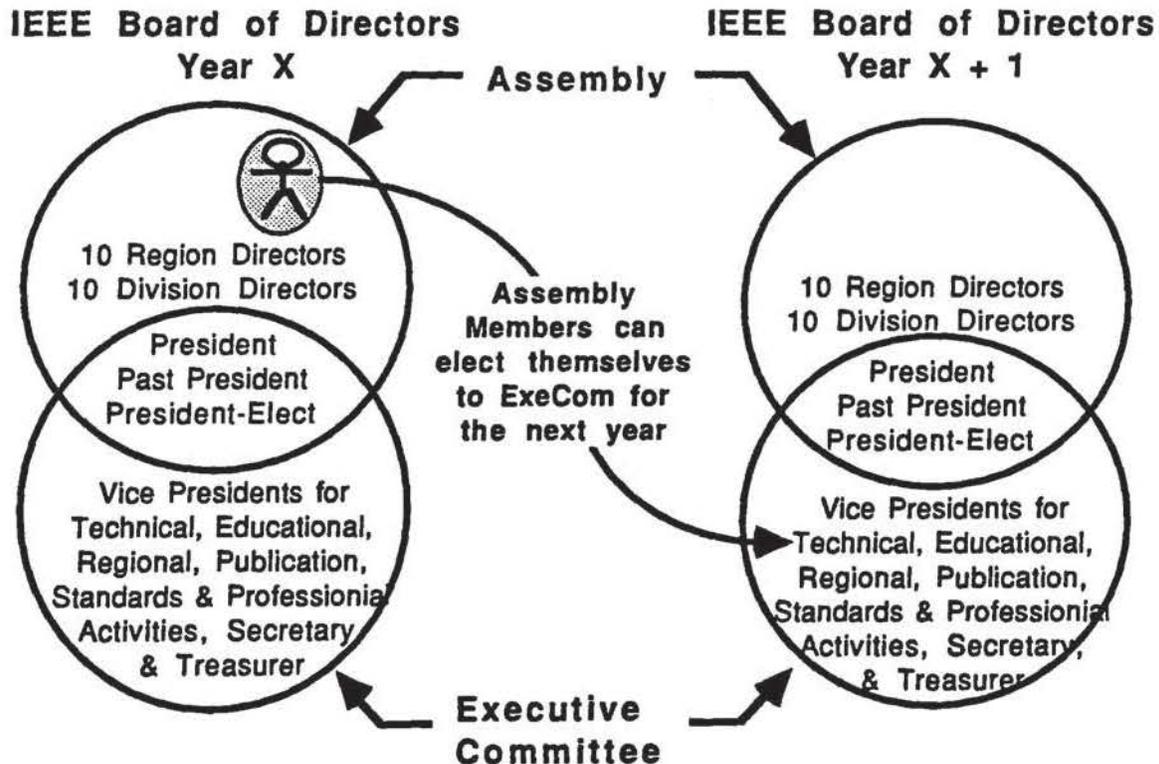
The Problem

Assembly elections of Institute officers are held in a closed, executive session. It is obvious that an election by this closed group cannot be completely free of bias if members of the group are election candidates. In order to create a "level playing field" for all candidates, this petition would force members of the Assembly who want to seek Institute officer positions to wait another year to "toss their hats into the ring." Although the members of the Assembly strive to be impartial in their voting patterns, this change would eliminate the appearance of bias that has plagued the Assembly in recent years.

Requested Action

Please circulate copies of this petition to IEEE voting members (Affiliates, students, and Associates can't vote) in your organization. Please return the signed petitions to:

H. Troy Nagle
Box 7911
Raleigh, NC 27695



(over)

TAB 5

1992 IEEE NNC Budget

Summary (see attachment 1 for mid-level breakdown)

Total Income	\$795,700
Total Expense	\$719,000
<u>Total Overall</u>	<u>\$076,700 (surplus)</u>

Notes:

1. The individual member subscription rate was increased from \$10.00 to \$12.00.
2. A newsletter was added this year. Est. cost \$21,300.
3. A standards committee has been established. Est. cost \$6,000.
4. Attachment 2 lists the 1990 Expenses by category
5. Attachment 3 lists the 1991 Expenses (to date) by category

Motion:

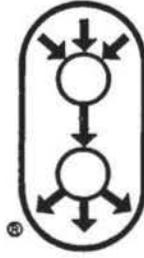
I move that the 1992 Neural Networks Council Budget be approved as stated.

IEEE Neural Networks Council Confidential Information

1990 Expenses

Amount	Description	Payee	Date
=====	=====	=====	=====
NNC ExCom Meetings			
88.86	Meeting Exp.	Marks	10/22/90
177.07	Telecon	Marks	11/26/90
71.18	Meeting Exp.	Marks	12/12/90
=====			
337.11			
NNC AdCom Meetings			
1,098.09	Travel	Tzanakou	2/7/90
1,226.42	Travel	Snyder	2/7/90
329.00	Travel	Marks	2/9/90
1,453.42	Travel	Nutter	6/26/90
655.83	Travel	Brown	7/1/90
1,673.74	Travel	Marks	7/1/90
1,581.04	Travel	Marks	7/13/90
765.00	Travel	Dickinson	9/10/90
=====			
8,782.54			
President			
59.64	Misc.	Marks	1/4/90
3,470.00	Secretarial	Marks (UW)	2/7/90
85.96	Misc.	Marks	2/12/90
398.00	Travel - TAB	Marks (UW)	2/12/90
76.56	Misc.	Marks	5/1/90
44.08	Misc.	Marks	6/8/90
159.57	Misc.	Marks	7/1/90
267.52	Misc.	Marks	6/29/90
70.35	Travel - TAB	Marks	7/13/90
4,111.00	Secretarial	Marks (UW)	7/17/90
63.65	Misc.	Marks	7/27/90
61.01	Misc.	Marks	9/24/90
153.20	Misc.	Marks	11/30/90
177.07	Misc.	Marks	12/4/90
1,047.48	Travel - TAB	Marks	12/12/90
=====			
10,245.09			
Vice-President			
297.12	Travel - TAB	Eberhart	2/7/90
108.43	Travel - NY	Eberhart	2/15/90
57.30	Misc.	Eberhart (IEEE)	3/31/90
3,300.00	Travel - China	Eberhart	11/27/90
=====			
3,762.85			
Secretary			
250.00	Secretarial	Tzanakou (Ashe)	2/12/90
=====			
250.00			
Treasurer			
14.00	Misc.	Simpson	2/14/90
=====			
14.00			

IEEE Neural Networks Council Confidential Information



IEEE Neural Networks Council

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◆ Standing Committee Meetings ◆

◆ IJCNN Oversight Committee ◆

WASHINGTON STATE CONVENTION & TRADE CENTER

JULY 7-9, 1991



June 15, 1991

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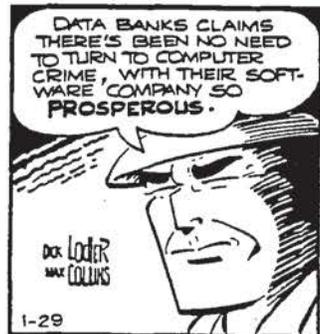
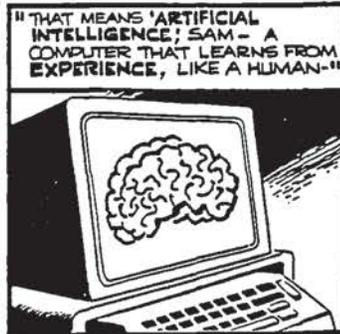
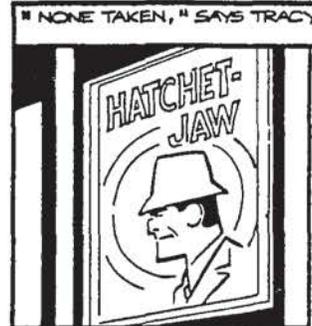
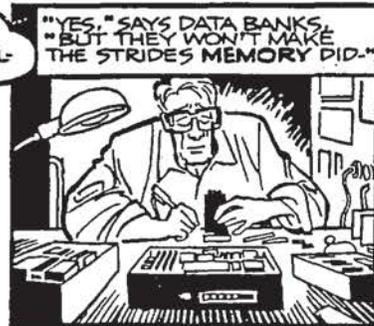
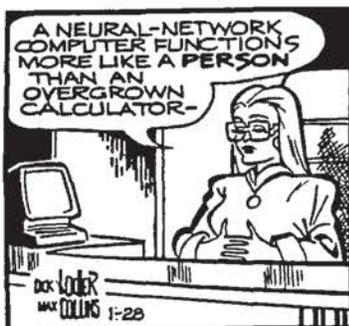
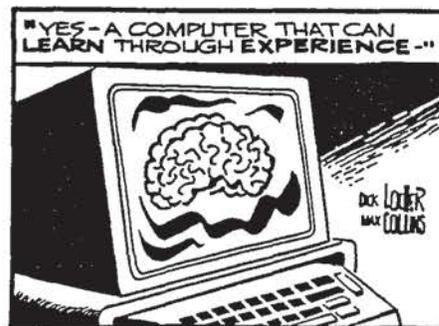
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Dick Locher and Max Collins



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- ◆ Greetings
- ◆ Adoption of Agenda
- ◆ Action Items
 - NNC Forum Proposals (Nutter) ⇒TAB 19 ⇒
 - Future Meeting Dates (Marks) ⇒TAB 20 ⇒
 - FUZZ-IEEE '92 Budget ⇒TAB 21 ⇒
 - Intelligent Vehicles '92 (Marks) ⇒TAB 22 ⇒
 - Russian Conference (Marks) ⇒TAB 23 ⇒
- ◆ Information Items
 - Conference Services from IEEE (Marks) ⇒TAB 24 ⇒
 - IEEE CONNOE (Simpson) ⇒TAB 25 ⇒
- ◆ Other Business
- ◆ ADJOURN

APPENDICES

- TAD Information ⇒TAB 26 ⇒
- NNC ExCom Minutes*
 - * February 7, 1991 ⇒TAB 27 ⇒
 - * April 22, 1991 ⇒TAB 28 ⇒
- NNC AdCom Members ⇒TAB 29 ⇒

TAB 1



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIVISION X: SYSTEMS AND CONTROL

H. Vincent Poor
DIRECTOR

PLEASE REPLY TO:
Department of Electrical Engineering
Princeton University
Princeton, NJ 08544 USA
Tel: (609) 258-1818
Fax: (609) 258-3745
e-mail: poor@ivy.princeton.edu

June 20, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

RE: Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

As of today, I have received the following nominations for the 1992 officers of the IEEE Neural Networks Council:

For President: Russell Eberhart

For Vice-President: Patrick K. Simpson

For Treasurer: Roy Nutter

For Secretary: Tushio Fukuda

Don Brown

All nominations have been seconded.

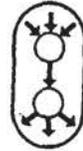
Please let me know if you have any questions concerning these nominations.

Best wishes,

A handwritten signature in black ink, appearing to read "H. Vincent Poor".

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-26-91

Dear NNC AdCom Members:

Greetings!

A great deal is happening in the Council. First, some

ANNOUNCEMENTS

◆ AdCom

The AdCom and related meetings of the *Neural Networks Council* will be held at the Seattle IJCNN in the *Washington State Convention & Trade Center*. The Center is located in downtown Seattle and is the sight for the Seattle IJCNN. The meeting room locations will be announced in the mailing you will be receiving at the end of June.

Sunday, July 7, 1991

2-5 PM	IJCNN Oversight Committee	Roy Nutter, Chair
2-5 PM	NNC Awards Committee	Brad Dickinson, Chair
6-9 PM	NNC Standards Committee	Walter Karplus, Chair
6-9 PM	NNC Meetings Committee	Roy Nutter, Chair
6-9 PM	NNC Publications Committee	Toshio Fukuda, Chair

Monday, July 8, 1991

9 AM - 4PM	NNC AdCom*	Bob Marks, President
------------	------------	----------------------

◆ Officer Nominations

Nominations for Council Officers for 1992 should be sent to

H. Vincent Poor, Chair
Neural Networks Council Nominating Committee
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544
(609) 258 1816
FAX: (609) 258-3745
poor@ivy.princeton.edu

(cont.)

* We will recess for a light lunch. Hopefully, we will finish well before 4:00.

The four elected officers of the Council are President, Vice President, Treasurer and Secretary. All nominations must be seconded. According to our Constitution ...

'The voting members will be:

- a. Two representatives to be appointed by each Member Society.
- b. The President, Vice-President, Secretary and Treasurer
- c. The most recent available immediate past President of the Council.'

Only AdCom members are eligible to nominate and second nominations. Officer elections will be conducted by written ballot at our Seattle AdCom meeting.

◆ Hard Copy Submissions for AdCom

I will be mailing copies of material related to the Council AdCom and Standing Committee meetings to you in late June. Any material you wish included in this mailing (*e.g.* officer reports, standing committee reports and motions) must be in my hands by Thursday, June 20.

SOME UPDATES & INFORMATION ITEMS

◆ Standards Committee

As you know, the Council established the Standards Committee as a Standing Committee of the Council at our last AdCom. I'm delighted to inform you what Walter Karplus has accepted the Chair of this Committee. Queries concerning the Committee should be addressed to him at

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929
FAX (213) 825-2273
karplus@cs.ucla.edu

◆ New AdCom Members

Since we last met, the following AdCom members have been appointed by their member Societies.

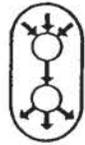
Circuits and Systems
Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498, FAX (409) 845 7161

Information Theory
Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822

TAB 2

No Minutes Submitted

TAB 3



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

NNC AdCom Members,

I have made the following appointments and hereby request the consent of the AdCom on their appointment.

Education Chair	Robert W. Newcomb
NNC Liaison to the IEEE Press	Stamatios Kartalopoulos
Video Tutorials Chair	Mohamed El-Sharkawi
NNC Representative to the TAB Newsletter Committee	Wes Snyder

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Marks II' with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

TAB 4



TO: IEEE Colleagues
FROM: H. Troy Nagle
DATE: June 13, 1991
SUBJECT: Assembly Petition Signatures

On the petition deadline (May 31, 1991), I submitted a total of 816 petition signatures to IEEE Headquarters. After verification by staff, only 771 survived. The required number to get the petition on the ballot was 812!!

I have asked the Executive Committee to allow me to continue to collect signatures until the end of 1991 to qualify the issue for the 1992 fall ballot. Therefore, I am asking volunteers who support this issue to help me continue the signature collection process for next year. If the ExeCom accepts my request, only about 50 more signatures are needed (I have about 15 of them already!). If the ExeCom denies my request, then signatures during the period June 1, 1991, to May 31, 1992, would be allowed for next year. In either case, the continued signature drive seems appropriate.

Attached please find a slightly revised petition form. I have added a diagram to back of the form to make the job of explaining the complex situation a bit easier.

Many thanks to everyone who helped collect signatures in March, April, and May. Please help me give it another try next year!!

H. Troy Nagle

Let the IEEE Members Decide!!

Background

At the annual November meeting of the IEEE Board of Directors, the Assembly (a body consisting of the ten Region Directors, ten Division Directors, President, Past President, and President-Elect) holds its annual meeting. At this annual meeting, the Assembly (a subset of the Board of Directors) elects the Vice Presidents for Technical Activities, Regional Activities, Educational Activities, Professional Activities, and Publications Activities, as well as the Treasurer, Secretary, and Director of Standards Activities for the next calendar year. See the diagram below for a view of the process. All eight of these Institute officers also serve as members of the Board of Directors. In other words, the members of the Board of Directors in the current year who are members of the Assembly are allowed to elect themselves to the next year's Board. This makes the Assembly election process very politically charged.

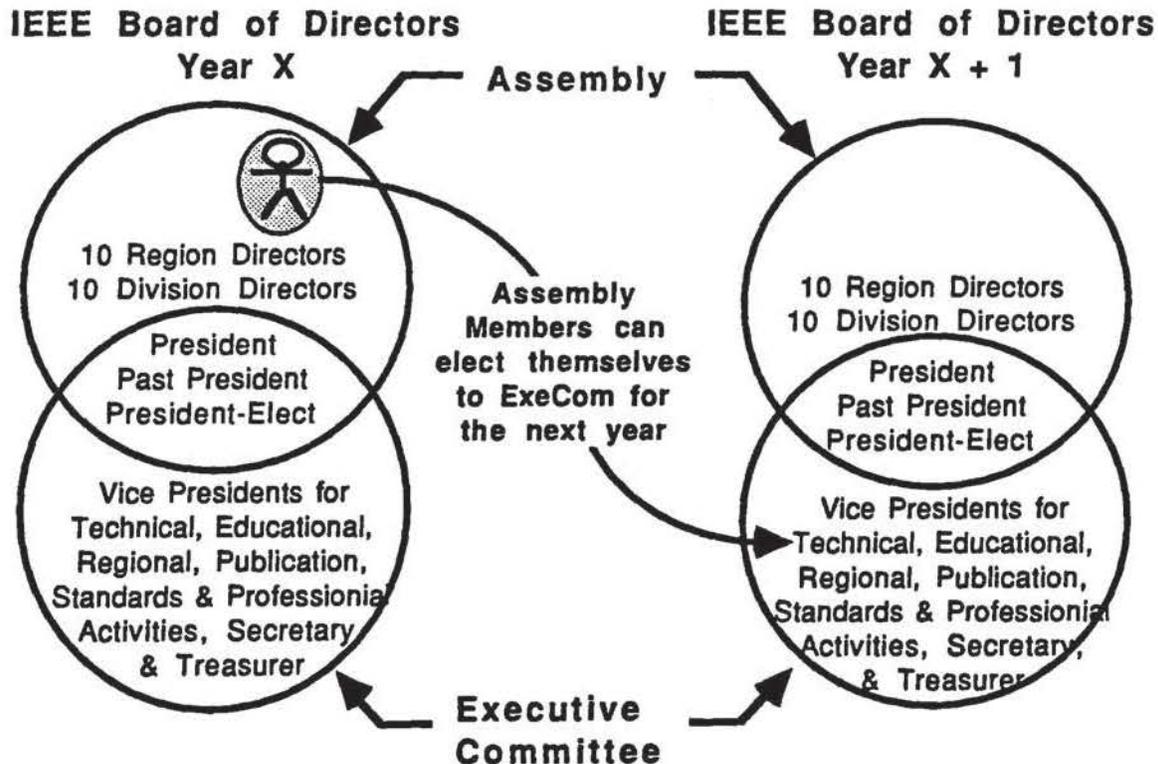
The Problem

Assembly elections of Institute officers are held in a closed, executive session. It is obvious that an election by this closed group cannot be completely free of bias if members of the group are election candidates. In order to create a "level playing field" for all candidates, this petition would force members of the Assembly who want to seek Institute officer positions to wait another year to "toss their hats into the ring." Although the members of the Assembly strive to be impartial in their voting patterns, this change would eliminate the appearance of bias that has plagued the Assembly in recent years.

Requested Action

Please circulate copies of this petition to IEEE voting members (Affiliates, students, and Associates can't vote) in your organization. Please return the signed petitions to:

H. Troy Nagle
Box 7911
Raleigh, NC 27695



(over)

TAB 5

1992 IEEE NNC Budget

Summary (see attachment 1 for mid-level breakdown)

Total Income	\$795,700
Total Expense	\$719,000
<u>Total Overall</u>	<u>\$076,700 (surplus)</u>

Notes:

1. The individual member subscription rate was increased from \$10.00 to \$12.00.
2. A newsletter was added this year. Est. cost \$21,300.
3. A standards committee has been established. Est. cost \$6,000.
4. Attachment 2 lists the 1990 Expenses by category
5. Attachment 3 lists the 1991 Expenses (to date) by category

Motion:

I move that the 1992 Neural Networks Council Budget be approved as stated.

IEEE Neural Networks Council Confidential Information

1990 Expenses

Amount	Description	Payee	Date
=====	=====	=====	=====
NNC ExCom Meetings			
88.86	Meeting Exp.	Marks	10/22/90
177.07	Telecon	Marks	11/26/90
71.18	Meeting Exp.	Marks	12/12/90
=====			
337.11			
NNC AdCom Meetings			
1,098.09	Travel	Tzanakou	2/7/90
1,226.42	Travel	Snyder	2/7/90
329.00	Travel	Marks	2/9/90
1,453.42	Travel	Nutter	6/26/90
655.83	Travel	Brown	7/1/90
1,673.74	Travel	Marks	7/1/90
1,581.04	Travel	Marks	7/13/90
765.00	Travel	Dickinson	9/10/90
=====			
8,782.54			
President			
59.64	Misc.	Marks	1/4/90
3,470.00	Secretarial	Marks (UW)	2/7/90
85.96	Misc.	Marks	2/12/90
398.00	Travel - TAB	Marks (UW)	2/12/90
76.56	Misc.	Marks	5/1/90
44.08	Misc.	Marks	6/8/90
159.57	Misc.	Marks	7/1/90
267.52	Misc.	Marks	6/29/90
70.35	Travel - TAB	Marks	7/13/90
4,111.00	Secretarial	Marks (UW)	7/17/90
63.65	Misc.	Marks	7/27/90
61.01	Misc.	Marks	9/24/90
153.20	Misc.	Marks	11/30/90
177.07	Misc.	Marks	12/4/90
1,047.48	Travel - TAB	Marks	12/12/90
=====			
10,245.09			
Vice-President			
297.12	Travel - TAB	Eberhart	2/7/90
108.43	Travel - NY	Eberhart	2/15/90
57.30	Misc.	Eberhart (IEEE)	3/31/90
3,300.00	Travel - China	Eberhart	11/27/90
=====			
3,762.85			
Secretary			
250.00	Secretarial	Tzanakou (Ashe)	2/12/90
=====			
250.00			
Treasurer			
14.00	Misc.	Simpson	2/14/90
=====			
14.00			

IEEE Neural Networks Council Confidential Information

Transactions Editor

269.46

190.58

=====

460.04

Misc.

Misc.

Rauch

Rauch

5/9/90

11/30/90

Standing and AdHoc Committees

None

Conferences

1,545.00

5,332.00

3,288.00

20,000.00

=====

30,165.00

Audit-89

Audit-89

Audit-89

Loan

JG&D

JG&D

JG&D

IJCNN-91 Sing

5/13/90

6/28/90

7/26/90

10/22/90

Sharing the Wealth

20,000.00

=====

20,000.00

Sharing Wealth Founding Soc.

8/16/90

IEEE Neural Networks Council Confidential Information

1991 Income/Expense

Amount =====	Description =====	Payee =====	Date =====
NNC ExCom Meetings			
271.83	Conf. Call	Marks	2/ 2/91
222.60	Conf. Call	Marks	4/ 1/91
115.58	Copy/Mail	Marks	5/ 1/91
355.90	Conf. Call	Marks	6/ 3/91
=====			
965.91			
NNC AdCom Meetings			
366.56	Printing	Marks	2/ 2/91
276.62	Travel	Kartalopoulos	2/ 2/91
627.09	Travel	Robinson	2/11/91
1,862.53	Travel	Marks	2/11/91
1,516.54	Travel	Karplus	2/11/91
72.00	Travel	Dickinson	2/20/91
22.50	Mail	Meeting Mgt.	2/20/91
331.81	Travel	Brown	2/20/91
202.43	Travel	Nutter	2/28/91
316.45	Travel	Simpson	3/22/91
=====			
5,594.53			
President			
127.67	Phone	Marks	1/ 2/91
46.19	Phone	Marks	2/ 2/91
1,562.64	Travel/Tokyo	Marks	2/ 5/91
894.75	Travel/TAB	Marks	2/20/91
102.52	Phone	Marks	2/28/91
79.11	Travel	Marks	4/ 1/91
113.50	Phone	Marks	4/ 1/91
702.24	Travel	Marks	4/23/91
6,397.00	Secretary	U of Wash.	5/ 1/91
59.90	Phone	Marks	5/ 7/91
132.79	Phone	Marks	5/29/91
=====			
10,218.31			
Vice-President			
None			
Secretary			
450.00	Secretary	Ashe	2/ 2/91
Treasurer			
49.14	Mail/Phone	Simpson	3/22/91
Transactions Editor			
134.99	Mail/Phone	Rauch	1/ 2/91
60.00	Mail	Rauch	2/11/91
=====			
194.99			
Standards Committee			
989.89	Travel	Tzanakou	2/18/91

IEEE Neural Networks Council Confidential Information

Education Committee 173.70	Travel	Haines	2/20/91
IJCNN-89 DC 247.00	Audit	JG&D	5/13/91
IJCNN-90 San Diego 5,000.00 572.00 =====	Distribution Reimbursement	IEEE SD Section Liang	5/13/91 6/ 3/91
5,572.00			
IJCNN-91 Singapore 391.41 32.54 200.00 =====	Mailing List Mail Mailing	IEEE U of Wash. IEEE/Video	4/ 1/91 5/ 9/91 5/29/91
623.95			
FUZZ-IEEE 92 30,000.00 762.04 =====	Loan Travel	Conference Bezdek	3/ 1/91 2/20/91
30,762.04			
IJCNN-92 Baltimore 50,000.00	Loan	Conference	4/10/91
NNC Newsletter None			

 EXPENSE

Reimbursable (loans)	80,000.00
Unreimbursable	25,841.46
Transactions*	33,000.00
IEEE Administration	4,300.00
	=====
Subtotal	143,141.46

* NNC Transactions
 Through 5/21/91, there was \$59,900.00 income and \$92,900.00 expense, yeilding a total expense of \$33,000.00. The original projection (MWR-91-001, January 26,1991 AdCom, Tab 6) showed only a \$5,000.00 deficit. This will be monitored closely to determine the reason for the difference.

 INCOME

Membership Fees	17,100.00
Interest Earned	14,400.00
Meetings (IJCNN-90)	38,300.00
Other	8,200.00
	=====
Subtotal	78,000.00

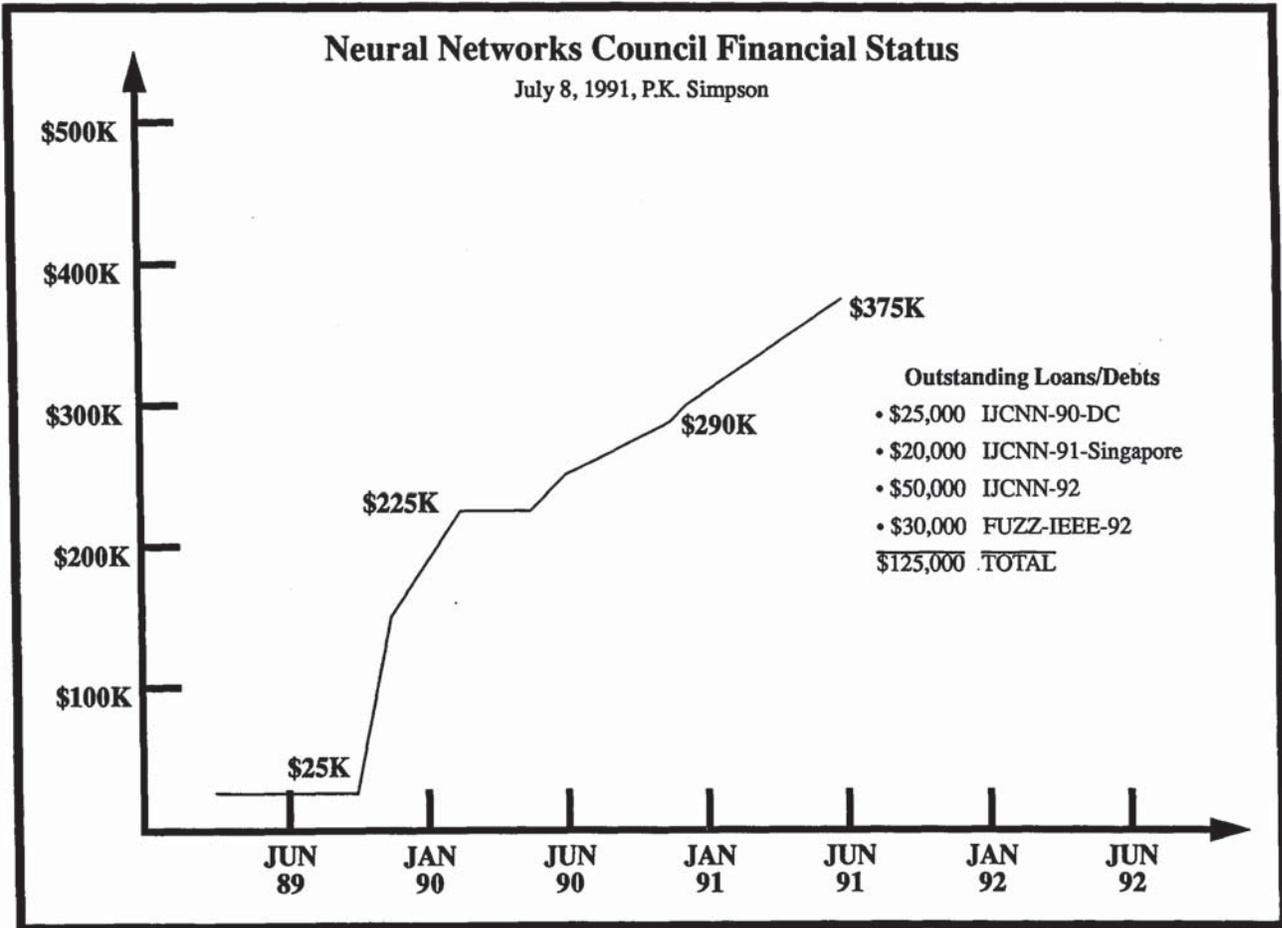
Potential Conference Income
 IJCNN-90 DC 25,000.00 (?) Still waiting.

IEEE Neural Networks Council Confidential Information

IJCNN-91 Seattle	50,000.00	(?)	Guessing.
IJCNN-91 Sngpr	30,000.00	(?)	Still Guessing.
	<u>=====</u>		
	105,000.00		

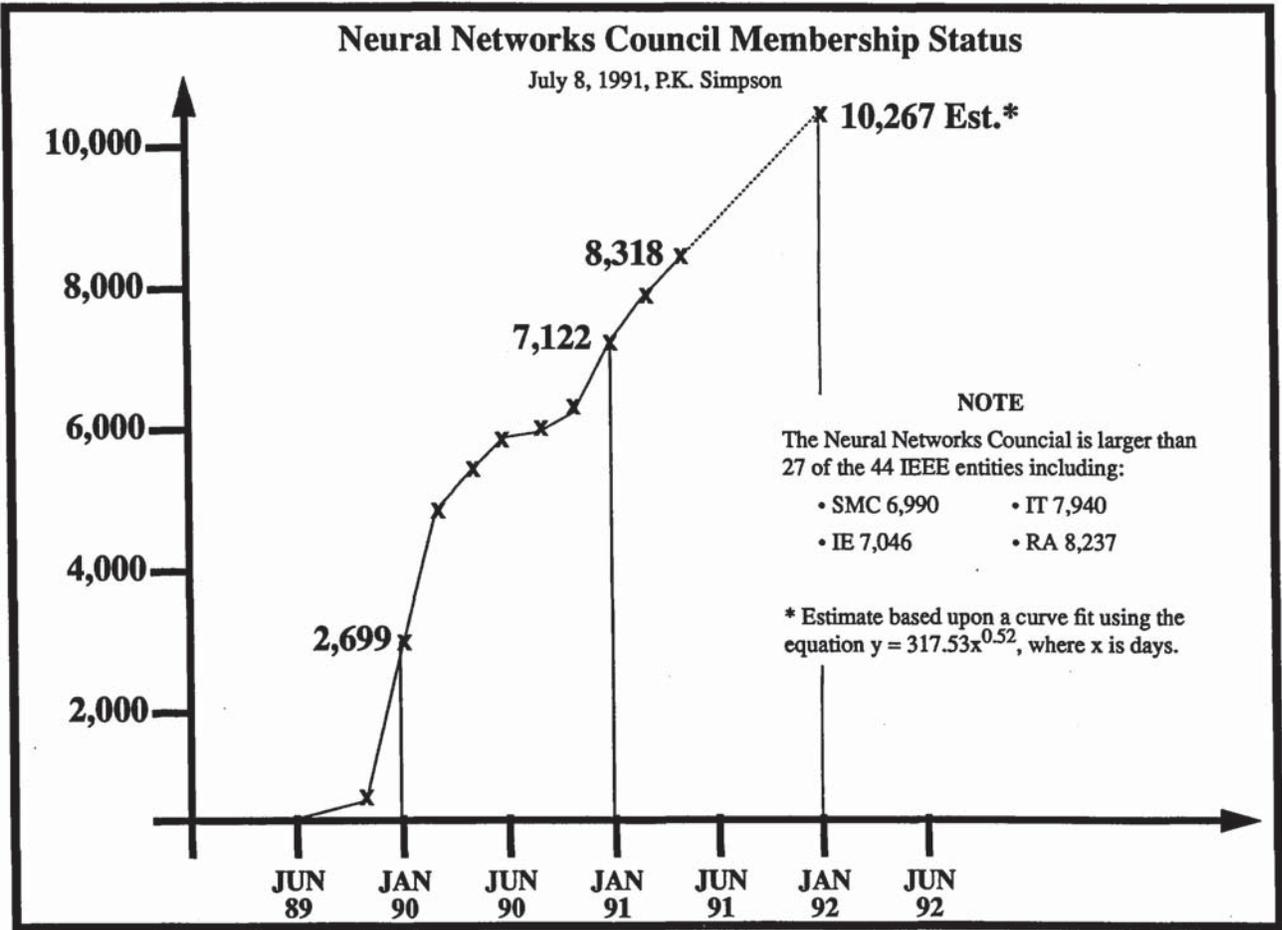
IEEE Neural Networks Council Confidential Information

IEEE Neural Networks Council Confidential Information



IEEE Neural Networks Council Confidential Information

IEEE Neural Networks Council



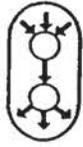
IEEE Neural Networks Council

TAB 6



IEEE

NEURAL NETWORKS COUNCIL



Michael W. Roth
Editor-in-Chief,
IEEE Transactions on Neural Networks

PLEASE REPLY TO:
Johns Hopkins University
Applied Physics Laboratory
Laurel, MD 20723 USA
Tel: (301) 792-6543
FAX: (301) 953-1093
e-mail: mwr@aplcomm.jhuapl.edu

June 18, 1991

To: IEEE NNC ADCOM

Subject: TNN Editor's Report for July 8, 1991 ADCOM

Attachments: 1. TNN Papers Received 1990-1991
2. New TNN Technical Associate Editors
3. Revised 1990-1992 TNN Budget

There has been a significant increase in the number of manuscript submissions over last year (see Attachment 1). For example, there has been an over 200% increase in the number of papers for the period of January through May. Consequently, a number of new Technical Associate Editors were recruited (see Attachment 2). In addition, a significant increase in secretarial support is being organized.

Attachment 3 describes the revised figures for the 1990-1992 budget. Final adjustments to the 1990 figures (as noted in footnote 1) give a \$49.5K budget surplus to the final 1990 audited budget. Data for January through April 1991 indicates a significant increase in non-IEEE subscriptions. This is used to give a new projection for the 1992 Budget that results in an estimated deficit of only \$9K.

A handwritten signature in cursive script that reads "Michael W. Roth".

Michael W. Roth

Attachment 1 to:
June 18, 1991
TNN Editor's Report

TNN Papers Received 1990-1991

	1990		1991		
	Regular	Letters	Regular	Letters	Special ¹
Jan	10	4	29	2	
Feb	10	2	16	8	
Mar	20	3	28	4	
Apr	11	3	28	4	44
May	15	5	42	4	
Jun	14	6			
Jul	27	6			
Aug	30	5			
Sep	18	6			
Oct	13	8			
Nov	20	1			
Dec	30	5			
	_____	_____	_____	_____	_____
Total	218	54	144 ²	24 ²	44

¹ Special March 1992 hardware issue extended summaries.

² January through May.

Attachment 2 to:
June 18, 1991
TNN Editor's Report

New TNN Technical Associate Editors

Etienne Barnard
University of Pretoria
Pretoria, South Africa

Rama Chellappa
University of Maryland
College Park, MD

Gerard Dreyfus
ESPCI
Paris, France

Frank Fallside
University of Cambridge
Cambridge, United Kingdom

Jay Farrell
Draper Laboratory
Cambridge, MA

Dan Hammerstrom
Adaptive Solutions, Inc.
Beaverton, OR

Mohamad Hassoun¹
Wayne State University
Detroit, MI

Kurt Hornik
Technische Universität Wien
Vienna, Austria

Michael Lemmon²
University of Notre Dame
Notre Dame, IN

Eric Mjolsness
Yale University
New Haven, CT

Gerald Tesauro
IBM Research Center
Yorktown Heights, NY

David E. Van den Bout
North Carolina State University
Raleigh, NC

Raymond L. Watrous
Siemens Corporate Research
Princeton, NJ

Ronald J. Williams
Northeastern University
Boston, MA

-
1. M. Hassoun also serves as the Associate Editor for Book Reviews.
 2. M. Lemmon also serves as one of the Associate Editors for Letters.

Attachment 3 to
 June 18, 1991
 TNN Editor's Report

Revised 1990-1992 TNN Budget

Year	1990 Final ¹	1991 Budget	1991 to 4/30/91	1992 Budget
Pages	320	640	408	960
<u>Income</u>				
Voluntary Page Charges	7.3K	5.8K	3.8K	13K
Transactions Package (1000 copies)	39.2K	65.5K	35.4K	92K
Non-IEEE	13.4K	13.4K	26.0K	30K
IEEE not NNC	17.1K	17.1K	21.0K	21K
IEEE NNC	54.4K	53.7K	59.0K	60K
<u>INCOME TOTAL</u>	<u>131.4K</u>	<u>155.5K</u>	<u>145.2K</u>	<u>221K</u>
<u>EXPENSES</u>				
IEEE Publications ²	79.9K	151K	101.1K	225K
Editor Expenses	2.0K	10K		5K
<u>EXPENSE TOTAL</u>	<u>81.9K</u>	<u>161K</u>	<u>101.1K</u>	<u>230K</u>
<u>SURPLUS</u>	<u>\$49.5K</u>	<u>DEFICIT \$ 5.5K</u>	<u>\$44.1K</u>	<u>DEFICIT \$ 9K</u>

¹ Includes additions of \$7.3K voluntary page charges, \$4.6K Transactions Package, \$0.7K IEEE NNC income and \$2.7K Publications expense.

² Since December publication expenses are for the January issue, they are shifted to the following year budget.

TAB 7

SOCIETY NOMINATION DATA FOR IEEE FELLOWS NOMINATED IN 1990

SOCIETY AND NO.	A			B	C		D	E
	TOTALS			ELEC.	MEMBERSHIP-90		% MEMS	% FEL
	NDM	NOM	NDM	90	V MEM	FEL	NOMTD	CUMUL
	88	89	90					
01 AC, SP, SIG PROC.	11	9	12	8	12157	315	0.10%	2.59%
10 AERO & ELECT SYST SOC	11	9	16	9	7008	271	0.23%	3.87%
03 ANTEN & PROP SOC	24	26	24	14	7418	338	0.32%	4.56%
02 BRODCST TECH SOC	1	5	2	2	2125	88	0.09%	4.14%
04 CKTS & SYSTMS SOC	11	19	19	8	11330	346	0.17%	3.05%
19 COMMUNICATIONS SOC	49	39	27	16	25115	524	0.11%	2.09%
21 COMP, HYBR, & MFG TECH	3	4	3	3	3497	87	0.09%	2.49%
16 COMPUTER SOC	30	41	42	27	59164	702	0.07%	1.19%
08 CONSUMER ELECT SOC	0	4	3	2	4535	102	0.07%	2.25%
23 CONTROL SYST SOC	19	18	16	9	8490	236	0.19%	2.78%
32 DIELEC & ELEC INS SOC	7	6	4	2	1909	103	0.21%	5.40%
25 EDUCATION SOC	6	15	13	7	2859	285	0.45%	11.14%
27 ELECTRMAG COMPAT SOC	1	7	4	2	3399	120	0.12%	3.53%
15 ELECRON DEVICES SOC	33	37	34	19	9164	432	0.37%	4.71%
14 ENGRG MANAGMT SOC	2	0	5	4	8354	114	0.06%	2.05%
18 ENGRG IN MEDIC & BIO SOC	6	4	10	9	5574	132	0.18%	2.37%
29 GEOSCI & REM SEN SOC	2	5	3	2	1958	69	0.15%	3.52%
13 IND ELECTRONICS SOC	2	1	2	2	5767	119	0.03%	2.06%
34 IND APPLICATIONS SOC	6	11	10	7	10013	219	0.10%	2.19%
12 INFO THEORY GROUP	6	8	4	3	3945	257	0.10%	6.51%
09 INSTRU & MEASMT SOC	7	7	6	4	4584	155	0.13%	3.38%
36 LASERS & OPT ELEC SOC	31	23	22	17	5140	240	0.43%	4.67%
33 MAGNETICS SOC	5	13	8	4	3163	145	0.25%	4.58%
17 MICROWV THRY & TEC SOC	21	20	17	12	8997	392	0.19%	4.36%
05 NUC & PLASMA SOC	10	5	5	4	2615	139	0.19%	5.32%
22 OCEANIC ENG SOC	1	0	2	2	1733	88	0.12%	5.01%
35 POWER ELECTRONICS SOC	2	2	5	2	3943	64	0.13%	1.62%
31 POWER ENGINEERING SOC	56	57	57	24	21826	624	0.26%	2.86%
26 PROF COMMUNICATIONS SOC	0	0	0	0	2036	25	---	1.08%
07 RELIABILITY SOC	2	3	3	1	3728	83	0.08%	2.23%
24 ROBOT & AUTOMATN SOC	0	1	6	2	4861	97	0.12%	2.00%
30 SOCIAL IMP OF TECH SOC	1	1	1	1	2262	102	0.04%	4.51%
SOLID STATE CKTS COU	7	7	4	2				
28 SYSTMS, MA & CYBER SOC	7	4	2	2	3683	127	0.05%	3.45%
20 ULTRASONICS, FERROEL--	11	8	9	5	1815	97	0.50%	5.34%
06 VEHICULAR TECH	2	3	2	0	2855	91	0.07%	3.19%
TOTALS	392	422	403					

A - NUMBER OF NOMINEES

B - NUMBER ELECTED FROM 1990 NOMINEES

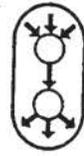
C - SOCIETY MEMBERSHIP: VOTING MEMBERS AND FELLOWS

D - PERCENTAGE OF SOCIETY VOTING MEMBERS THAT WERE NOMINATED IN 1990

E - PERCENTAGE OF SOCIETY VOTING MEMBERS WHO ARE FELLOWS

4/7/91

TAB 8



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

2-4-91

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Dr. Werbos,

I have been directed by the AdCom of the *IEEE Neural Networks Council* (NNC) to announce to you cancellation of the Agreement between the Council and the *International Neural Network Society* (INNS) immediately after the 1992 Baltimore IJCNN. I hereby do so. This cancellation is made in accordance with Article 14 of the Agreement between our two organizations which states, in part,

This agreement can be canceled upon written notification of either organization to the President of the other organization. The President of the INNS and the President of the NNC shall have the responsibility of settling any unfinished business already initiated as a result of this document. In the event of dissolution, each society shall honor its previously approved budgets. Upon cancellation, both organizations agree to not use the conference name "International Joint Conference on Neural Networks" or the initials "IJCNN." The NNC reserves the exclusive right to use the conference name "International Conference on Neural Networks". The INNS reserves the exclusive right to use the conference name "INNS Annual Meeting."

The IJCNN's, as you know, are currently the largest and most successful conferences on neural networks in the world. Nevertheless, the Council feels that due, in part, to our broadening focus of interests, a dissolution of the Agreement is required. This dissolution, however, still leaves open the possibility that the NNC and INNS can work together on other projects, including future jointly sponsored IJCNN's.

I will be contacting you shortly to arrange procedures for the settling of unfinished business already initiated as a result of the Agreement. The Council intends to remain flexible in the process of these negotiations.

Sincerely,



Robert J. Marks II, President
IEEE Council on Neural Networks

cc: IEEE NNC AdCom
Laura Jobmann, IEEE Conference Services

IEEE NNC Meetings Committee
Roy S. Nutter, IOC Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Dissolution Agreement

Whereas the societies named the IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) have entered into an Agreement concerning the joint sponsoring of the International Joint Conferences on Neural Networks series and, whereas, the NNC has chosen to dissolve that Agreement, and, whereas, the Presidents of the INNS and the NNC have been empowered by their organizations to resolve all unfinished business initiated as a result of the Agreement, the NNC and INNS do hereby agree as follows:

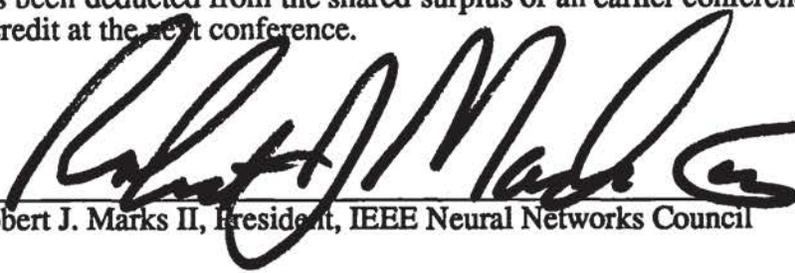
1. The Agreement (including Bylaws) will remain in effect through May 1, 1994, except as specifically amended by this Dissolution Agreement. This Dissolution Agreement is binding on both societies and may be altered only in writing with authorized joint signatures by both the President of INNS and the President of the NNC.

2. The following schedule of jointly sponsored meetings and corresponding Conference Chairs is hereby approved.

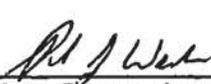
IJCNN Seattle	summer, '91	Prof. D. Rumelhart, Chair
IJCNN Singapore	autumn, '91	Prof. T.S. Low, Chair
IJCNN Baltimore	summer, '92	Prof. C. Lau, Chair
IJCNN Beijing	autumn, '92	Prof. Zong Sha, Chair
IJCNN Portland	summer, '93	Prof. G. Lendaris, Chair
IJCNN Japan	autumn, '93	Prof. S. Amari (Organizing Comm. Chair) Prof. T. Fukuda, (Steering Comm. Chair)

Neither the INNS nor the NNC will be involved, at any level, in any other major conference on artificial neural networks through May 1, 1994. A major conference is any meeting that has an attendance of no more than 400 participants at the conference sight. Commitments of involvement with major conferences by either Society made prior to February 1, 1991 are specifically excluded if the commitment(s) were made in accordance with the Agreement.

3. The NNC and INNS will share equally from the surplus from all IJCNN's and will equally share in the payment of any deficit originating from an IJCNN. No portion of the surplus will be set aside by either the NNC or the INNS as seed money for future conferences. If seed money has been deducted from the shared surplus of an earlier conference, the amount will be treated as a credit at the next conference.


Robert J. Marks II, President, IEEE Neural Networks Council

5/12/91


Paul J. Werbos, President, International Neural Networks Society

TAB 9

Microsystems Laboratory
Electrical Engineering Department
University of Maryland
College Park, Maryland 20742
Phone: (301) 405-3662
email: newcomb@sparcee.eng.umd.edu
fax: (301) 314-9281

April 16, 1991

Mr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Mr. Engelson:

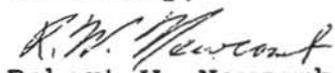
At its last meeting the Ad Com of the IEEE Neural Network Council (NNC) voted to provide a \$5,000 grant to the International Student Society for Neural Networks (ISSNET) to assist student attendees who in turn lend considerable assistance to the International Joint Conference on Neural Networks, sponsored by the Council. From Dr. Patrick K. Simpson, the NNC Treasurer, I have just learned that before the money can be awarded to ISSNET it is necessary to have this grant approved by the IEEE Board of Directors. Consequently, as the Chair of the NNC Committee on Student Interface, I request the necessary approval.

The primary use planned for this money by ISSNET is for student registrations (with 10% set aside for ISSNET administration). It should be noted that the NNC AdCom was unanimous in their endorsement of this grant since it is the desire of the NNC to involve students in NNC activities to the extent possible. Thus, I highly recommend the approval by the IEEE Board of Directors.

I hope that approval will be forthcoming in the next two weeks since the students need to have knowledge of the availability of the money for the meeting in Seattle. If so, and as per the letter of Dr. Simpson of March 1, 1991, to Marilyn Prusan, Finance Administrator for IEEE Technical Activities, please have a check sent to Ms. Karen G. Haines who is the student administering the funds for ISSNET. If it is not possible to get the Board's approval please let me, and Ms. Haines, know immediately so that timely adjustments can be made.

Thank you for your prompt consideration.

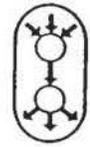
Sincerely,


Robert W. Newcomb
Professor

RN/lc

cc: Dr. Patrick K. Simpson, Treasurer NNC
Professor Robert J. Marks, II, President NNC
Ms. Karen G. Haines

Department of Electrical and Computer Engineering
Carnegie Mellon University
Pittsburgh, PA 15213



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-21-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

NNC Education Committee

Robert W. Newcomb, Chair
Mirosystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD

Karen Haines, President
ISSNNet
Dept. of ECE
Carnegie-Mellon University
Pittsburg, PA 15213

A total of \$5000 was approved at the last Council AdCom for support of student expenses to attend Council sponsored conferences. The following procedure should be followed for reimbursement of these expenses.

- ◆ Each student requesting reimbursement should submit a completed IEEE travel reimbursement form, with original receipts to the *NNC Education Committee*. These forms are available from

Marilyn J. Prusan, Finance Administrator
Technical Activities Department, IEEE
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331
FAX: (201) 562-1571
(201) 562-3861

Ms. Prusan is responsible at IEEE for generating the travel reimbursement checks.

- ◆ The completed forms should then be sent to me for approval for reimbursement. The Committee should indicate the maximum amount to be reimbursed for each student. I will then forward the forms to Patrick K. Simpson, the Council Treasurer. Reimbursement checks will be sent directly to the students.
- ◆ My preference is that all the forms be submitted at once with a single of recommendation cover letter.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson, NNC Treasurer
Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Irv Engelson, IEEE TAB
Marilyn Prusan, IEEE

From khaines@galileo.ECE.CMU.EDU Thu Jun 6 09:21:01 1991
Received: from GALILEO.ECE.CMU.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA29603; Thu, 6 Jun 91 09:20:53 -0700
Received: by galileo.ECE.CMU.EDU (5.54-ECE2/5.17)
id AA08688; Thu, 6 Jun 91 12:20:40 EDT
Date: Thu, 6 Jun 91 12:20:40 EDT
From: Karen Haines <khaines@galileo.ece.cmu.edu>
Message-Id: <9106061620.AA08688@galileo.ECE.CMU.EDU>
To: I.ENGELSON.ieee.org@galileo.ECE.CMU.EDU(a), gaudiano@park.bu.edu,
marks@u.washington.edu, newcomb@eng.umd.edu
Subject: IEEE Funds
Status: RO

Hi Professor Newcomb,

As the conferences and the IEEE meeting in the middle of this month nears, there are some issues that I would like to go over. The first of these is the distribution of the funds from IEEE NNC. There are several points that need to be reconsidered. The current method, as decided by IEEE, is unacceptable to ISSNNet. It requires a lot of work on the part of ISSNNet that we feel is unnecessary. We feel that we have established ourselves as a reputable organization and should be given the grant to distribute as originally proposed. We are willing to send IEEE an itemized list of students who received funding (after distribution), but the request to have students fill out IEEE travel forms, submit the travel forms to IEEE, then have IEEE send us the money, then have us distribute the funds to the students is unnecessary and time consuming. In addition, since the funds will be processed through our account, we need to retain the original receipts. If IEEE is adamant about the students filling out the travel forms and turning in original receipts, then we insist that IEEE refund the students directly. This avoids our need to retain the original receipts since no money will be processed through our account. The items below provide a synopsis of this issue.

I would like to attend the meeting that IEEE will have in the middle of the month to represent ISSNNet. Is this possible? Please let me know what your feelings are on this issue?

Thank you,
Karen Haines

cc: Paolo Gaudiano, Bob Marks, Irv Engelson

ITEM 1:

From: Dr. Irving Engelson, Staff Director for Technical activities at IEEE.
Dr. Engelson requested the following information about ISSNNet before approval of the recommended \$5000.- grant to ISSNNet from our IEEE Neural Networks Council.

What kind of corporation are you, if any. I was told that you are a 501 C(3) corporation. If so,

- (1) In what state are you incorporated ?
 - (2) When were you incorporated ?
 - (3) What is your corporate address ?
 - (4) Are the officers students and/or is there faculty involvement ?
 - (5) How large is your membership, and is it for undergrads, grads or both ?
 - (6) Since you are International, what is the international scope of your activities e.g., members/chapter in how many countries ?
 - (7) How do you assist the Conference ?
 - (8) How will you use the funds to assist students ? i.e., selection criteria and use of funds ?
 - (9) Who is your President and do you have a professional staff ?
 - (10) If the funds are approved (it needs approval of our executive committee, in addition to my action), where and to whom should it be mailed.
- I'll also appreciate a copy of your bylaws, if available.

All information was sent to Dr. Engelson. However no reply has been received stating that all information sent was sufficient.

ITEM 2:

The grant is to assist student attendees who lend assistance to the International Joint Conference on Neural Networks.

For the conferences this year, this assumption is incorrect. The grant given to our organization was intended to pay for student registration to students presenting 1) oral papers or 2) poster papers at the IJCNN conferences in Seattle and Singapore. It was also decided that there was no requirement for IEEE or ISSNNet membership. The intent was to foster goodwill among the students and IEEE. Neither conferences (Seattle or Singapore) have requested ISSNNet to coordinate the volunteers. I have a letter from Pat Simpson authorizing the grant to our organization and it specifically states these funds will be used for student registration. If IEEE has changed their minds, then this needs to be discussed.

ITEM 3:

Irv Engelson suggested the following procedure for reimbursing the money.

"Students support would be recommended by the student group. The student would fill out standard IEEE travel forms. Upon your recommendation, I would approve reimbursement of students up to their travel & lodging expenses not to exceed \$5k total. This is a procedure we can put into effect immediately without an okay from the Board of Directors. The reimbursement procedure is consistent with the motion okayed by AdCom. It is important that the students submit ORIGINAL receipts, including the original copy of the airline ticket and hotel bills. You should have our reimbursement manual with all the rules e.g., only coach travel etc."

"Please be reminded that if the direct reimbursement to the student is not

acceptable, we will need info re the student organization for submission to the ExCom. "

The above procedure is not acceptable to ISSNNet. Assuming that we now reconsider the grant given to our organization to include expenses other than registration (the original intent of the grant), the maximum per student will be about \$250.00. This is 20 forms to fill out. In addition we are required to submit original receipts that we need to retain for tax purposes, given that we have to redistribute the \$ to the students. The following methods of distribution are suggested.

1) We can have the students fill out the forms and turn in the receipts are requested, but **IEEE MUST PROVIDE DIRECT REIMBURSEMENT TO THE STUDENTS.**

Since effectively no funds will be processed through our account, it is then not necessary for ISSNNet to retain the original receipts.

2) Provide the grant as originally requested to ISSNNet. Since ISSNNet has given the above information as requested as well as complying with all requests about information of our organization, we feel we have proven ourselves to be a respectable and responsible organization. Such requests as outlined in the procedure above assume the contrary.

ISSNNet prefers the second method of distribution of funds, but is willing to accept the first method as well.

TAB 10



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

April 3, 1991

Dr. Robert Marks
University of Washington
Department of Electrical Engineering
Ft-10
Seattle, WA 98195

Dear Dr. Marks:

I appreciate all the time and energy you spent this morning discussing the possibility of a mutual arrangement between the Educational Activities Board and the Neural Networks Council. Through cooperative arrangements like this we are able to provide a much larger member service to individual societies/councils as well as the greater IEEE membership. Your expertise and advice regarding the technical agenda will certainly enhance the educational value of the programs.

Enclosed are copies of our video guidelines and a sample contract which we have used in similar situations with other societies. I look forward to working with you and the council to produce video tutorials and emerging technology tapes on neural networks and fuzzy logic.

Please let me know how we can help to get things going.

Sincerely yours,

A handwritten signature in cursive script that reads "Peter Wiesner".

Peter Wiesner
Manager
Individual Learning Activities

Attachments

cc: B. Babeu Murray
R. A. Stampfl

neurnets.1

VIDEOS

Spread Spectrum Communications

Fundamentals and Applications
Presented by Glenn E. Prescott, University of Kansas, Lawrence
Product No: HV0121-4
Recording Date: May 1989
List Price: \$135.95
Member Price: \$65.95
Run Time: 3 Hours/2 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Series**International Conference on Neural Networks/88**

The following thirteen video tutorials, which were recorded at the ICNN/88, are available at reduced prices as a complete set of 13 programs or a smaller set of any 6 tapes, or may be purchased individually.

Neural Networks/88 Package I (All 13 Programs)

Product No: HV0100-8
Recording Date: July 1988
List Price: \$1269.50
Member Price: \$749.50
Run Time: 26 Hours/13 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Package II (Any 6 Programs)

Product No: HV0099-2
Recording Date: July 1988
List Price: \$629.95
Member Price: \$329.95
Run Time: 12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Neurobiological Review 1988

Presented by Michael A. Arbib, University of Southern California
Product No: HV0101-6
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Resonance

Presented by Gail A. Carpenter, Northeastern University and Boston University
Product No: HV0102-4
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Pattern Recognition Review

Presented by David Casasent, Carnegie-Mellon University
Product No: HV0103-2
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1988

Presented by H.J. Caulfield, University of Alabama
Product No: HV0104-0
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Vision

Presented by John Daugman, Harvard University Division of Applied Science
Product No: HV0105-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Competitive and Cooperative Learning Systems

Presented by Stephen Grossberg, Boston University
Product No: HV0106-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurocomputing Applications

Presented by Robert Hecht-Nielsen, University of California
Product No: HV0107-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Dynamical Systems Review

Presented by Morris Hirsch, University of California, Berkeley
Product No: HV0108-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Self-Organizing Feature Maps

Presented by Teuvo Kohonen, Helsinki University of Technology
Product No: HV0109-9
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Associative Memory

Presented by Bart Kosko, University of Southern California
Product No: HV0110-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Parallel Distributed Processing

Presented by David Rumelhart, Stanford University
Product No: HV0111-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Speech

Presented by Terrence J. Sejnowski, Johns Hopkins University
Product No: HV0112-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Neural Networks

Presented by Bernard Widrow, Stanford University
Product No: HV0113-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks/89 Series**International Joint Conference on Neural Networks**

The following eight video tutorials, which were recorded at the 1989 IEEE/INNS Joint Conference in Washington, DC, are available as a package at reduced prices, or may be purchased individually.

VIDEOS

Neural Networks/89 Package (All 8 Programs)

Product No: HV0123-0
Recording Date: June 1989
List Price: \$849.95
Member Price: \$449.95
Run Time: 16 Hours/8 VHS Tapes
Standard: NTSC, PAL

Adaptive Pattern Recognition

Presented by Leon Cooper, Brown University
Product No: HV0124-8
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurobiology Review 1989

Presented by Walter J. Freeman, University of California, Berkeley
Product No: HV0125-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Sensory-Motor Control

Presented by Stephen Grossberg, Boston University
Product No: HV0126-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks: Algorithms and Microhardware

Presented by John J. Hopfield, California Institute of Technology and AT&T Bell Laboratories
Product No: HV0127-1
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

VLSI Technology and Neural Network Chips

Presented by Lawrence D. Jackel, AT&T Bell Laboratories
Product No: HV0128-9
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1989

Presented by Demetri Psaltis, California Institute of Technology
Product No: HV0129-7
Recording Date: June, 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Starting a Hi-Tech Company

Presented by Peter W. Wallace, Hambrecht & Quist
Product No: HV0130-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Reinforcement Learning

Presented by Ronald J. Williams, College of Computer Science, Northeastern University
Product No: HV0131-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Power System Fault Calculation Series

Developed by Charles W. Brice III, University of South Carolina
The three parts of this series are divided into 10 to 20 minute video segments, followed by study guide/workbook practice problems.

Three-Phase Short Circuits

Product No: HV0069-5
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 115 Min/1 VHS Tape
Standard: NTSC, PAL

Unsymmetrical Short Circuits

Product No: HV0070-3
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

Applications to Industrial Power Distribution Systems

Product No: HV0071-1
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

NEW...**Robotics/90 Series**

The following three video tutorials on robotics are available as a package at a reduced price, or may be purchased individually.

Robotics/90 Package (All 3 Programs)

Product No: HV0159-4
Recording Date: May 1990
List Price: \$315.95
Member Price: \$165.95
Run Time: 9-12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Modeling and Control of Automated Manufacturing Systems

Presented by Alan Destrochers, Rensselaer Polytechnic Institute
New researchers as well as practicing engineers will find this video tutorial to be of great value. It gives a summary of the significant research in automation and flexible manufacturing. It provides the newest mathematical control methods, and explains their potential for changing the operation of modern manufacturing systems. In addition to discussing modeling methods, control issues, manufacturing software, and performance analysis of transfer lines, the tutorial emphasizes the Petri net approach.
Product No: HV0160-2
Recording Date: May 1990
List Price: \$135.95
Member Price: \$65.95
Run Time: 3-4 Hours/2 VHS Tapes
Standard: NTSC, PAL

Networking for Computer-Integrated Manufacturing

Presented by A. Ray, Pennsylvania State University; K.H. Murali, Industrial Technology Institute; and Arun Ayyagari, Boeing Electronics Division
This video tutorial provides an in-depth look at the fundamentals of networking for computer-integrated manufacturing. Emphasizing intelligent manufacturing and systems integration, the program covers several components of network analysis and design. Topics include basic concepts and architectures of CIM networking, introduction to manufacturing automation protocol (MAP) and technical and office protocols (TOP), management and control of CIM net-



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

May 6, 1991

Dr. Mohamed El-Sharkawi
Dept. of Electrical Engineering
Mail Stop FT-10
University of Washington
Seattle, WA 98195

Dear Dr. El-Sharkawi,

This is to follow-up our conversation regarding our working with the Neural Nets Council in videotaping video tutorial presenters in conjunction with upcoming meetings, such as IJCCN.

We would like to videotape a selected number of presenters under studio conditions, such as those available at the University of Washington. This would involve an agreement between IEEE Educational Activities Board (EAB) and the Neural Nets Council. In this agreement, we would include royalty arrangements with the presenters as well as the Council.

Our department would also coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the production entity. We would also coordinate the pre-production work of the presenters, such as the preparation of graphics, in accordance with the enclosed guidelines.

The Neural Nets Council would assume responsibility over the quality of the content of the videos. Other reviewers, volunteers from the Educational Activities Board, would review tapes for instructional design and video production quality, under the supervision of Dr. Deter Gehmlich (University of Utah).

Based on previous sales records (1989-91), we anticipate that it will be possible to sell on the average of 75 copies per individual program per year, over a two year period, after which the tapes would become obsolete. What we propose, then, is the following business arrangement, assuming we will sell 150 over a two-year period, based on an analysis of our 1990 sales data indicating that the average number of tapes/title sold from our 1988 series was 45, and from our 1989 series was 105.

Assuming 150 copies sold, we anticipate the average cost of a single program to include:

\$ 3,500 TV recording and editing
500 honorarium for presenter
600 presenter royalty (\$4/program)
800 accompanying print materials
1,500 promotion
1,725 producer fee

\$ 8,625 production (subtotal)

3,750 duplication, 150 release copies (\$25 each)
4,500 salaries and overhead, distribution
\$16,875 Total project cost

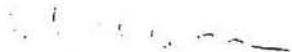
Assuming we will sell 150 titles (our set break-even point), EAD will charge 99.00/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the following royalty schedule, enabling the Council to recover costs when 150 copies are sold and to generate surplus revenue thereafter. What follows are some options:

	Royalties (first 150 copies sold)	Royalties (each additional copy)
Amount invested by Neural Nets Council per title		
\$375	\$2.50/copy	\$2.00/copy
\$750	\$5.00/copy	\$4.00/copy
\$1,500	\$10.00/copy	\$8.00/copy
\$3,000	\$20.00/copy	\$16.00/copy

As I mentioned to you, we have contractual arrangements with other societies (Microwave Theory and Techniques, Robotics, Signal Processing, etc.) to produce video tutorials. For example, the MTT Society has invested \$17,500 annually, to be matched by Educational Activities, for the purpose of recording MTT distinguished lecturers. The enclosed "straw man" is similar to those used in our other society agreements.

I hope that this letter is useful in getting things going with the ad hoc neural network video committee. Please don't hesitate to contact me for additional information.

Sincerely,


Peter Wiesner, Ed.D.

cc: ~~Robert Marks~~
Rudi Stampfl



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

May 30, 1991

Dr. Mohamed El-Sharkawi
Dept. of Electrical Engineering
Mail Stop FT-10
Universit of Washington
Seattle, WA 98195

Dear Dr. El-Sharkawi,

This letter includes your suggested revisions concerning our working with IJCCN to produce videotapes by pioneers in the field. We spoke about the possibility of producing several several programs on relatively broad topics in neural networks and fuzzy logic, up to four programs in each area. The Neural Networks Council would line up the presenters and the IEEE Educational Activities would make arrangements for videotaping.

We would like to videotape a selected number of presenters under studio conditions, such as those available at the University of Washington. This would involve an agreement between IEEE Educational Activities Board (EAB) and the Neural Nets Council. In this agreement, we would specify remuneration for the presenters as well as royalty arrangements for the Neural Nets Council.

Our department would coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the produciton entity. We would also coordinate the pre-production work of the presenters, such as the preparation of graphics, in accordance with the enclosed guidelines.

The Neural Nets Council would assume responsibility over the quality of the content of the videos. Other reviewers, volunteers from the Educational Activities Board, would review tapes for instructional design and video production quality, under the supervision of Dr. Deter Gehmlich (University of Utah).

Based on previous sales records (1989-91), we anticipate that it will be possible to sell on the average of 75 copies per individual program per year, over a two year period, after which the tapes would become obsolete. What we propose, then, is the following business arrangement, assuming we will sell 150 over a two-year period, based on an analysis of our 1990 sales data indicating that the average number of tapes/title sold from our 1988 series was 45, and from our 1989 series was 105.

Assuming 150 copies sold, we anticipate the average cost of a single program to include:

\$ 3,500 TV recording and editing
1,500 honorarium for presenter
800 accompanying print materials
1,500 promotion
1,725 producer fee

\$ 9,625 production (subtotal)

3,750 duplication, 150 release copies (\$25 each)
4,500 salaries and overhead, distribution

\$16,275 Total project cost

Assuming we will sell 150 titles (our set break-even point), EAD will charge \$89.95/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the the following royalty schedule, enabling the Council to recover costs when 150 copies are sold and to generate surplus revenue thereafter. What follows are some options:

Amount invested by Neural Nets Council per title	Royalties (first 150 copies sold)	Royalties (each additional copy)
\$375	\$2.50/copy	\$2.00/copy
\$750	\$5.00/copy	\$4.00/copy
\$1,500	\$10.00/copy	\$8.00/copy
\$3,000	\$20.00/copy	\$16.00/copy

As I mentioned to you, we have contractual arrangements with other societies (Microwave Theory and Techniques, Robotics, Signal Processing, etc.) to produce video tutorials. For example, the MTT Society has invested \$17,500 annually, to be matched by Educational Activities, for the purpose of recording MTT distinguished lecturers. The enclosed "straw man" is similar to those used in our other society agreements.

The agreement terms proposed here would enable the Neural Nets Council to recover its investment upon 150 tapes sold. The Council could accelerate its investment by taking an active part in promoting and selling tapes at its conferences, receiving a 10% rebate (in addition to royalties) for any tapes sold at its conferences or through its newsletters. Ideally, the Neural Nets Council would include an offer to members in its conference application package.

I hope that this letter is useful in getting things going with the Neural Nets Council. Once you have their approval regarding the terms of the agreement, we would then develop a formal letter of agreement (based on the one I sent you earlier) for signature.

Sincerely,



Peter Wiesner, Ed.D.

cc: Robert Marks
Rudi Stampfl

TAB 11

Field of Interest

Background: The area of interest of the Council has evolved significantly over the last few years. The Field of interest statement, appearing in our Constitution, must be approved by a two thirds vote of AdCom before forwarding to TAB. TAB has recently approved the attached procedure for granting approval.

Motion: The following revision of the field of interest of the Neural Networks Council be forwarded to TAB for approval.

ARTICLE I

NAME AND PURPOSE

Section 1. The name of the organization constituted herein shall be the IEEE Council on Neural Networks.

Section 2. The purpose of the Council is to advance and coordinate work in the field of Neural Networks carried out throughout the IEEE and as such is exclusively scientific, literary and educational in character. In furtherance of the foregoing, the Council may publish appropriate periodicals, sponsor IEEE Neural Networks related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

ARTICLE II

FIELD OF INTEREST

Section 1. The field of interest of the Council and its activities and programs shall consist of aspects of the theory, design, and applications of neural networks that range from software to hardware. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Proposed revision:

Section 1. The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradymes, including neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems; and hybrid intelligent systems in which these disciplines are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Proposed Change of A Society's Field of Interest

Proposed Motion

Proposed change of a Society's field of interest should follow these three steps:

1. To initiate a change in its field of interest, a Society files a notice of proposed change with the TAB Secretariat. This notice is then sent to all other Society/Council Presidents with a request to notify the proposing Society/Council President of any comments.
2. The proposed change should then be communicated as an action item at a Society Presidents' Forum; if not approved by a majority

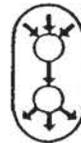
of Society/Council Presidents, an Adhoc Committee of interested and affected Society/Council Presidents shall be appointed by the Forum Chairman (who will also act as the Chairman of the Adhoc Committee). Following due deliberations and input from Society AdComs, the Adhoc Committee will attempt to arrive at a mutually acceptable statement of the proposed change; the Committee must report back to the Society Presidents' Forum at the next subsequent meeting of the Forum with either an appropriate motion or a recommendation that an Adhoc Arbitration Committee--chaired by the Forum Chairman and consisting of five Presidents from disinterested societies and who are not members of the

affected Society/Councils--be formed. Again, this Committee must report back to the Society Presidents' Forum at the next subsequent meeting of the Forum with its recommendation.

3. Based on the approval of the majority of the Society Presidents, the proposed change will be introduced to TAB as a Forum motion and voted on accordingly. (If the proposed change is endorsed by TAB, it is referred to the IEEE Executive Committee for final approval.)

T1EN.01

TAB 12



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

6-20-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Proposed meetings:

AdCom

Saturday, March 7, 1992 at San Diego Town & Country FUZZ-IEEE.

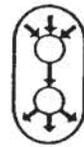
ExCom

Monday, Nov. 18, 1991 at Singapore Westin, Singapore IJCNN.

A handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

TAB 13



1

NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-10-91

University of Washington
Seattle, WA 98195 USA
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Nystul Professor
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Lotfi Zadeh
Department of Electrical Eng.
University of CA, Berkeley
Berkeley, CA 94720
dianel@janus.berkeley.edu
415 642 4959
415 526 2569 (H)

Prof. Didier Dubois
Langages et Sys. Informatiques
Universite Paul Sabatier
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Tel (33) 61556331
Fax (33) 61556239

Prof. Kaoru Hirota
Dept. of Ind. and Control Engr.
Hosei University
3-7-2 Kajino-Cho
Koganei, Tokyo 184, JAPAN

Michio Sugeno
Systems Science Dept.
Tokyo Institute of Technology
4259 Nagatsuta, Midori-Ku
Yokohama, 227, JAPAN
anca@sys.titech.ac.jp

Thank you each for agreeing to serve on the *IEEE Neural Networks Council's ad hoc* Committee on **IEEE Transactions on Fuzzy Systems**. The charter of your committee is preparation of a proposal for establishment of the **Transactions** to be presented to the *NNC Publications Committee* and subsequently to the Council AdCom at its meeting on July 8, 1991 in Seattle. After approval by AdCom, the proposal will be forwarded to the IEEE Publications Board and TAB.

A hard copy of your proposal should be in my hands by June 20. I will include it in the pre-meeting mailing to *NNC Publications Committee* and *AdCom*.

Sincerely,

-copy-

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Toshio Fukuda, NNC Publications Chair
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Ann Burgmeyer, IEEE Manager of Pubs
Lewis Moore, IEEE Business Manager for Publications
Thomas Cain, Chairman, IEEE Publications Board

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

PROPOSAL for PUBLICATION

of the

IEEE TRANSACTIONS ON FUZZY SYSTEMS

by the

IEEE NEURAL NETWORKS COUNCIL

which is composed of representatives of the IEEE Societies listed in Appendix A

Prepared by the Ad Hoc Committee for the Transactions

**James C. Bezdek, Chair
Didier Dubois
Toshio Fukuda
Kaoru Hirota
Michio Sugeno
Lotfi Zadeh**

June, 1991

INTRODUCTION AND SUMMARY

This document presents a proposal for an *IEEE Transactions on Fuzzy Systems* sponsored by the *IEEE Neural Networks Council (NNC)*, which is composed of representatives from the *IEEE Societies* listed in Appendix A. The proposed transactions will be a quarterly publication starting in January, 1993 with 320 pages (including covers). The cost to *IEEE* members who belong to one of the member societies of the NNC will be \$10 for the first year; the cost to *IEEE* members outside of the member societies will be \$15. The proposed four-year budget shows a modest surplus (\$9k) in 1993, with continuing slight surpluses in each of the subsequent three years. The proposed budget lists 2000 member subscribers in 1993 plus 1000 in the all-transactions package rising to 3500 member subscribers in 1996. If current interest in Fuzzy Systems continues, these figures are conservative.

FUZZY SYSTEMS

Over the last five years fuzzy models in control systems and pattern recognition have supplanted more conventional technologies in many scientific applications and engineering systems. A recent Newsweek article [Appendix D] indicates that the Japanese now hold more than 2000 patents on fuzzy devices used in applications as diverse as: washing machines, TV Camcorders, air conditioners, palm top computers, vacuum cleaners, ship navigators, subway train controllers and automobile transmissions.

Interest in fuzzy systems in academic, industrial and government is also manifested by the rapid growth of national and international conferences. A short list of conferences includes: NAFIPS (North American Fuzzy Information Processing Society), annual 1982-1991; IFSA (International Fuzzy Systems Association), biannual 1985-1991; NASA, *Fuzzy Logic and Neural Networks*, biannual, 1988-1992; SPIE, *Fuzzy Logic*, annual beginning 1993; MCC, *Industrial Conference on Fuzzy Systems*, 1992; and finally, the *IEEE International Conference on Fuzzy Systems*, annual, beginning in 1992 [Appendix E]. This last conference was organized and sponsored by the *IEEE NNC*, the sponsor of this proposal.

The need for a centralized *IEEE* publication in Fuzzy Systems is based on a broad spectrum of interest both within and outside of the *IEEE*. There have been a number of fuzzy systems papers and special issues in the publications of *IEEE NNC Societies*. However, these scattered publications are quite difficult to follow for the ever-growing number of fuzzy systems researchers. Establishment of a Transactions would provide a valuable service to fuzzy systems researchers by making available a high quality archival publication that is characteristic of the *IEEE*. Areas of analysis and application include those of the member NNC societies, as well as other topics such as applications to economics, psychology, finance, and in the so-called soft sciences. Current *IEEE* publications are not adequate to cover the ever expanding topical areas in this new field. The proposed Transactions is intended to augment *IEEE* publications on Fuzzy Systems, and not to replace current *IEEE* publications. Interest by those not currently belonging to the *IEEE* would increase *IEEE* membership through the proposed transactions, especially in areas such as the social sciences, which utilize fuzzy models enthusiastically

From a technical standpoint, it is appropriate that the *IEEE NNC* propose the establishment of a Transactions on Fuzzy Systems, because it has become increasingly clear over the last few years that fuzzy models and neural networks are technically synergistic (e.g., the NASA conferences on *Fuzzy Logic and Neural Networks*; a planned special issue of *IEEE Transactions on Neural Networks on "Fuzzy Systems and Neurocomputing,"* to appear in Fall, 1992; the *IEEE NNC* proposal to have an *IEEE Press* milestone series book entitled "Fuzzy Models in Pattern Recognition", etc.).

Fuzzy sets were introduced in 1965 by Lotfi Zadeh (Univ. of California, Berkeley) as a means for representing non-statistical uncertainty. Imprecision, vagueness and ambiguity in natural language often leads to fuzzy (non-random) statements such as "Apply your brakes *pretty soon*"; "if the temperature is *high* or speed is *great*, reduce the engine output *a little*." The theory of fuzzy sets has evolved as a representational language that provides a means for manipulating, combining, interpreting and using fuzzy instructions and/or data, with the ultimate purposes of classification, prediction and control.

As noted in Appendix D, successful applications of fuzzy models have gained great visibility through commercial applications in Japan. MITI in Japan started LIFE (Laboratory of Industrial Fuzzy Engineering) in 1988 with an annual budget of about \$24,000,000/yr (US dollars) for seven years. Japan now has a very large and active professional society (SOFT, the Japanese Society for Fuzzy Theories, about 1800 members) which publishes a technical journal in Japanese. Other professional societies are : IFSA (International Fuzzy Systems Association), 400 members; NAFIPS (North American Information Processing Society), 150 members; KFMS (Korean Fuzzy Mathematics and Systems Society), 210 members; and societies in India and China that have an estimated membership of about 6,000. In the US, a few companies such as Togai Infralogic and Rockwell, and agencies such as the NSF and NASA have provided limited but continued support for fuzzy systems development. Recently, however, US industries have begun to commission serious and dedicated efforts to engineering and scientific applications of fuzzy systems (e.g., the IEEE video teleconference on Fuzzy Systems, 1991; the ICFS, sponsored by MCC in 1992, etc.).

The major journals devoted to fuzzy systems are the *SOFT Journal* (Japan, about 1800 readers), *Fuzzy Sets and Systems* (North Holland, about 800 readers) and the *Int. J. Approximate Reasoning* (Elsevier, about 300 readers). It is appropriate that the IEEE create a flagship publication in the area of fuzzy systems, to collect and publish the best research on this important new technology. Although the current proposal calls for a transactions having 320 pages/year, it is anticipated that the Transactions will be able to justify expansion to 600 pages by the fourth year.

SCOPE OF THE PROPOSED TRANSACTIONS

The *IEEE Transactions on Fuzzy Systems* will publish high quality technical papers in the theory, design and application of fuzzy systems. Readers will be encouraged to submit papers which disclose significant technical knowledge, exploratory developments and applications of fuzzy systems. Emphasis will be given to engineering systems and scientific applications. The Transactions will also contain a letters section which includes information of current interest, and comments and rebuttals submitted in connection with published papers.

Representative applications areas include the following aspects of fuzzy systems:

1. Fuzzy estimation, prediction and control
2. Approximate reasoning
3. Intelligent systems design
4. Machine learning
5. Image processing and machine vision
6. Pattern recognition
7. Fuzzy neurocomputing
8. Electronic and photonic implementation
9. Medical computing applications
10. Robotics and Motion Control
11. Constraint Propagation and Optimization
12. Civil, Chemical and Industrial Engineering Applications

SPONSORSHIP

The Transactions will be sponsored by the *IEEE Neural Networks Council*, which is composed of the member Societies listed in Appendix A. The NNC has a large surplus in reserve in the unlikely event that the proposed transactions needs financial support during its first years of operation. The NNC will finance a one time purchase of approximately 8000 extra copies of the first issue of the Transactions on Fuzzy Systems which will be sent free of charge to all subscribers of the IEEE Transactions on Neural Networks.

ADMINISTRATIVE MANAGEMENT OF THE JOURNAL

Management of the Journal shall be vested in the NNC. The Editor shall be selected by the NNC, and may be removed by a two-thirds majority vote of the council. The term of office for the Editor shall be four years, renewable by the NNC. The Editor shall nominate Associate Editors to be approved by the council. A council member may be an Associate Editor, but may not in any way participate in discussions or vote concerning their own nomination. All actions of the NNC concerning the transactions, except removal of the Editor, shall be by majority vote of the council.

EDITORIAL POLICY

Editorial selection and review shall be consistent with policies and practices of the IEEE. There shall be no commercial advertising in the Journal. Papers for the initial issues will be obtained from individual solicitation and from papers submitted to the *1992 IEEE International Conference on Fuzzy Systems*. Final copies of papers for the conference are due by September, 1991; this will allow ample lead time for the preparation of the first Transactions issue, targeted to appear in January, 1993.

FINANCES

The budget for each calendar year for the Transactions of Fuzzy Systems shall be the responsibility of the Editor. The budget shall include all customary IEEE Expense and Income items. Appendix B shows the input data used in the financial analysis. Appendix C shows the financial projection for the years 1993 to 1996. All financial data are in based on proration of 1991 dollars.

Appendix A : MEMBERSHIP STATISTICS

Membership Statistics of constituent societies of the *IEEE Neural Network Council* as of 1/1/91:

<u>Society</u>	<u>Number of Members</u>
CAS	14,916
COMMUNICATIONS	31,412
CONTROL SYSTEMS	11,411
ENG. & MED. BIO.	7,691
IND. APPLICATIONS	11,215
IND. ELECTRONICS	6,560
INF. THEORY	6,295
LASERS ELECT. OP. SOC.	7,271
OCEAN ENGINEERING	2,233
ROBOTIC AND AUTOMATION	6,725
SIGNAL PROCESSING	15,925
SYSTEMS MAN & CYBER	5,029
Total	126,683

6

Appendix B: FINANCIAL INPUT DATA (1991 Dollars)

The expense numbers here are for a quarterly publication with 320 pages (including covers). This data was supplied by Lewis Moore, Business Manager for IEEE Publications, (908) 562-3959.

ESTIMATE FOR NEW TRANSACTIONS: SUMMARY DATA

Total number of pages/year	320
Total number of issues/year	4
Pages incl. covers-1 issue	80
Print Order	3000

FIXED COSTS (PER YEAR)

Editorial:	320 pp @ \$ 42.00	13,440.00
Comp & Layout:	320 pp @ \$ 60.00	19,200.00
Camera:	320 pp @ \$ 3.00	960.00
Press:		8,000.00
Covers and Binding:		3,000.00

VARIABLE COSTS (PER YEAR)

Press:	1,000.00
Mailing (labor & labels):	2,000.00
Postage (75% Domestic, 25% Foreign):	6,000.00
Paper (text & cover):	4,000.00
Pub Admin Costs:	1,500.00
TOTAL PER YEAR, 1991 dollars	51,110.00

Appendix C. Budget Estimates for the Proposed Transactions on Fuzzy Systems.
 1993 Base Costs are 120% of 1991 Base Costs. Subsequent costs are proportional to the total number of published pages.

Year	1993	1994	1995	1996
Number of Pages:	320	400	496	600
Number of Copies:				
Full Package	1000	1000	1000	1000
Member Subs.	2000	2500	3000	3500
Total Prinrun	3000	3500	4000	4500
Costs (K\$)				
Prod. and Distr.	56	70	87	105
Indexing	2	2	3	3
Direct Editorial Expenses	8	10	10	10
Total Costs (K\$)	66	82	100	118
Income (K\$)				
Member fees	\$10	\$10	\$14	\$16
Income, member fees	20	25	42	56
Non-Member Fee	\$100	\$100	\$100	\$100
Income, Non-members (100)	10	10	10	10
Full Package Subscribers	45	52	57	60
Total Income (K\$)	75	87	109	126
Net (K\$)	+9	+5	+9	+8



JAMES D. WILSON—NEWSWEEK

Berkeley professor and programming pioneer Zadeh

program their VCRs. A fuzzy VCR might, with voice synthesis, say, "I think you're programming me incorrectly." The potential for other products is enormous: Japanese researchers have already built a fuzzy car capable of parking itself.

Yet Zadeh won't get rich. When his first papers appeared, there was little prece-

dent for protecting intellectual property. "It didn't even occur to me to patent it," he says. "Now there are over 2,000 fuzzy logic patents in Japan alone." Dozens of products have already come to market: the first fuzzy washing machine, made by Matsushita (Panasonic in the United States), sold out its initial production run within weeks. Zadeh, still virtually unknown in America, has his name on office-building plaques in Japan.

What's fuzzy logic? A comparison: American computer scientists today bicker over the relative merits of two forms of artificial intelligence (AI): classic AI and "neural networks." So far the winner in the United States is classic AI, which depends on fixed rules programmed into the computer, plus data that's fed into it. This means the computer would use its rules, along with your credit record, to tell a bank whether to give you a new credit card. The problem: in the real world, rules keep changing, but the

ones in the computer don't.

That's why neural network computers, which far more accurately mimic the human mind, have become a hot topic in computer science. Neural-network computers can learn from experience. For example: a neural-network computer in California designed to approve home loans receives feed-

back on which loans went sour and uses that information to alter its approval system. The problem: thus far, neural networks need the care and feeding of a human 2-year-old. Little dependable software exists for them, and so corporations are hesitant to invest. Once again, corporate America's emphasis on showing short-term gains and avoiding long-term risk may mean that the lead in neural-network computing could soon go to Japan.

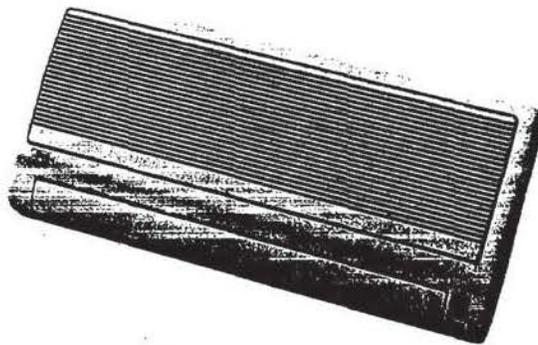
In fuzzy logic, the Russian-born Zadeh essentially combined the two schools of artificial intelligence. The fuzzy computer is preprogrammed, but with highly flexible rules. While fuzzy computers can't reprogram themselves, as can neural networks, they can adapt to changing conditions. If trains on the Sendai line in Japan (one of the first fuzzy applications) are late, the train-controlling computer can reschedule as necessary. The same fuzzy computer also controls the rate at which trains stop at stations: straphangers don't need to grip hard because station stops are as gentle as a kitten. In Japan, fuzzy computers also control elevators, deciding where to stop depending on the number and destination of passengers. There is even a fuzzy-logic investment fund, using the technique to analyze the Tokyo stock market.

Few U.S. products: American business people and government officials are finally taking note of fuzzy. The top-of-the-line Kenmore refrigerator uses fuzzy logic to defrost itself. Last month NASA's Johnson Space Center hosted a conference on fuzzy logic and neural networks. (NASA might use fuzzy logic in future space-vehicle control systems.) At least one U.S. start-up, Togai InfraLogic, is already building fuzzy chips. Sony is rumored to have approached a small Silicon Valley firm to make fuzzy chips for a U.S. version of its handwriting-recognition computer. IBM, Hewlett-Packard and Rockwell International are all studying fuzzy logic, although no products are in sight. Analyst Tatsuno believes American firms might find a niche making fuzzy chips for Japanese appliances and predicts the technology could spawn as many as 100 new U.S. companies this decade.

At home in Berkeley, Zadeh is philosophical about being a prophet with little recognition in his own land. "In the U.S., there's a tradition for what is precise, for Cartesian logic. In Japan there is more appreciation of the imprecise, of ambiguity. I've always been confident that people will come around to my way of thinking." Soon, he says, fuzzy logic will be in every appliance. "We'll see appliances rated not on horsepower but on IQ." Then keeping up with the neighbors may take on a new edge. Hey: my microwave is smarter than yours.

MICHAEL ROGERS with YURIKO HOSHIAI
in Tokyo

COMPUTERS: A new Sony 'PalmTop' machine uses fuzzy logic to help it recognize and respond to a user's handwriting when it appears on the screen.



AIR CONDITIONERS: It allows electric coolers and heaters to change temperatures based on the number of people who are in the room, or the power requirements of a house.



Technology

Time for Some Fuzzy Thinking

An oddball approach to computer science pays off in Japan

BY PHILIP ELMER-DEWITT

In the pages of *Books in Print*, listed among works like *Fuzzy Bear* and *Fuzzy Wuzzy Puppy*, are some strange-sounding titles: *Fuzzy Systems*, *Fuzzy Set Theory* and *Fuzzy Reasoning & Its Applications*. The bedtime reading of scientists gone soft in the head? No, these academic tomes are the collected output of 25 years of mostly American research in fuzzy logic, a branch of mathematics designed to help computers simulate the various kinds of vagueness and uncertainty found in everyday life. Despite a distinguished corps of devoted followers, however, fuzzy logic has been largely relegated to the back shelves of computer science—at least in the U.S.

But not, it turns out, in Japan. As they have so often in the past, the Japanese have seized on an American invention and found practical uses for it. Suddenly the term fuzzy and products based on principles of fuzzy logic seem to be everywhere in Japan: in television documentaries, in corporate magazine ads and in novel electronic gadgets ranging from computer-controlled air conditioners to golf-swing analyzers. The concept of fuzziness has struck a cultural chord in a society whose religions and philosophies are attuned to ambiguity and contradiction. Says Noboru Wakami, a senior researcher at Matsushita: "It's like soy sauce and sushi—a perfect match."

What is fuzzy logic? The original concept, developed in the mid-'60s by Lofti Zadeh, a Russian-born professor of computer science at the University of California, Berkeley, is that things in the real world do not fall into the neat, crisp categories defined by traditional set theory, like the set of even numbers or the set of left-handed baseball players. In standard Aristotelian logic, as in computer science, membership in a class or set is not a matter of degree. Either a number is even, or it is not. But this on-or-off, black-or-white, 0-or-1 approach falls apart when applied to many everyday classifications, like the set of beautiful women, the set of tall men or the set of very cold days.

To deal with such cases, Zadeh proposed that membership in a set be measured not as a 0 or a 1, but as a value between 0 and 1. Thus, in the set of tall men, George Bush (6 ft. 2 in.) might have a

membership value of 0.7, while Kareem Abdul-Jabbar (7 ft. 2 in.) might have a 0.99. Zadeh and his students went on to elaborate a full fuzzy mathematics, devising precise rules for combining vague expressions like "somewhat fast," "very hot" and "usually wrong."

This mathematics turns out to be surprisingly useful for controlling robots, machine tools and various electronic systems. A conventional air conditioner, for example, recognizes only two basic states: too hot or too cold. When geared for thermostat control, the cooling system either



operates at full blast or shuts off completely. A fuzzy air conditioner, by contrast, would recognize that some room temperatures are closer to the human comfort zone than others. Its cooling system would begin to slow down gradually as the room temperature approached the desired setting. Result: a more comfortable room and a smaller electric bill.

Fuzzy logic began to find applications in industry in the early '70s, when it was teamed with another form of advanced computer science called the expert system. A product of research into artificial intelligence, expert systems solve complex problems somewhat like human experts do—by applying rules of thumb. (Example: when the oven gets very hot, turn the gas down a bit.) In 1980 F.L. Smidth & Co. of Copenhagen began marketing the first commercial fuzzy expert system: a computer program that controlled the fuel-intake rate and gas flow of a rotating kiln used to make cement.

Despite such successes, fuzzy logic was not well received in the U.S. Scientists pointed out that uncertainty and vagueness could be represented perfectly well by more traditional means, like statistics or probability theory. Some of the criticism bordered on the vituperative, and the tenets of fuzzy logic were dismissed with terms ranging from "comical" to "content-free."

The Japanese, however, showed no such resistance, perhaps because their culture is not so deeply rooted in scientific rationalism. Says Bart Kosko, a Zadeh protégé and a professor of electrical engineering at the University of Southern California: "Fuzziness begins where Western logic ends." In the early '80s several Japanese firms plunged enthusiastically into fuzzy research. By 1985 Hitachi had installed the technology's most celebrated showpiece: a subway system in Sendai, about 200 miles north of Tokyo, that is operated by a fuzzy computer. Not only does it give an astonishingly smooth ride (passengers do not need to hang on to straps), but it is also 10% more energy efficient than systems driven by human conductors.

Japanese researchers are pursuing more than 100 new applications for fuzzy logic. Nissan has patented fuzzy auto transmission and antiskid braking systems. Yamaichi Securities has introduced a fuzzy stock-market investment program for signaling shifts in market sentiment. Canon is working on a fuzzy auto-focus camera. Matsushita has delivered a fuzzy automobile-traffic controller, and is about to unveil a fuzzy shower system that adjusts to changes in water temperature to prevent morning scaldings. And in the strongest endorsement of the technology to date, the Ministry of International Trade and Industry opened the Laboratory for International Fuzzy Engineering Research in Yokohama and called for funding of some \$34 million over the next six years.

The U.S. is not totally out of the fuzzy picture yet. A small firm in Irvine, Calif., Togai InfraLogic, has already achieved several of the goals MITI set for itself, including a fuzzy computer chip that can perform 28,600 fuzzy-logical inferences per sec. (FLIPS). And NASA is experimenting with fuzzy controllers that could help astronauts pilot the shuttle in earth orbit. The results so far, say NASA officials, are encouraging, and there is growing interest at such aerospace firms as Rockwell and Boeing. "The only barrier remaining" to wider use of fuzzy logic, says Kosko, "is the philosophical resistance of the West." —Reported by Norihiko Shirouzu/Tokyo

The Future Looks 'Fuzzy'

10

Yet again, Japan is cashing in on a U.S. invention

Imagine a futuristic washing machine. It's still coated with white enamel, but it just got a whole lot smarter. You dump the laundry basket into the tub, push one button and leave.

The machine then uses an optical sensor to look at your clothes, decides how dirty they are, determines how much detergent, water and cycles are required, then goes about its business. The built-in intelligence of the washing machine is comparable to a human's good sense—at least as far as laundry is concerned. Sound like science fiction? Not really. You can already buy such a washer from two different companies in Japan.

How do they work? The key is fuzzy logic, a new way to program computers and appliances to mimic the imprecise way humans make decisions. It's the latest in a long line of technologies—from robotics and VCRs to solar cells—that Americans invented, only to see savvy Japanese manufacturers take the lead in finding commercial applications. For Japanese firms, fuzzy logic may prove even a greater coup than the VCR: within a decade, everything from cameras and elevators to toasters and automobiles will probably incorporate fuzzy-logic computer chips. "In 10 years," says Sheridan Tatsuno, principal of NeoConcepts in Fremont, Calif., and an expert on Japanese technology, "fuzzy logic will be a 2-to-3-billion-dollar business."

By then we may be buying fuzzy VCRs that come with only one button—to turn them on and off—and are programmed solely by voice commands. Fuzzy cameras will automatically and subtly compensate for tricky lighting situations. Fuzzy microwave ovens will watch over meals with the same sensitivity as a human cook. Fuzzy shower systems will prevent sudden changes in water pressure from chilling—or scalding—the bather. Fuzzy air conditioners and heaters will balance temperatures according to the number of people in a room and the power needs of a house. "Within a few years," says Tatsuno, "there

will be several hundred applications."

Fuzzy logic was indisputably born in the United States, in the mid-1960s, at the modest northside Berkeley, Calif., home of Lotfi Zadeh, now 69 and still teaching at the University of California. The unkind might call him the original computer nerd: he buys only used cars, wears a pocket protector and carries a mathematical calculator in a plastic pouch on his belt. But Zadeh was also the first to create a way for comput-

THE ASIAN CHALLENGE

er programs to recognize that reality has shades of gray. The simple yes-no response of traditional programming doesn't deal with, say, the case of laundry that isn't all equally dirty. The idea was obvious, but Zadeh was ignored by U.S. business.

Not so in Japan. Japanese manufacturers have not only found pure computer applications, like a new Sony computer

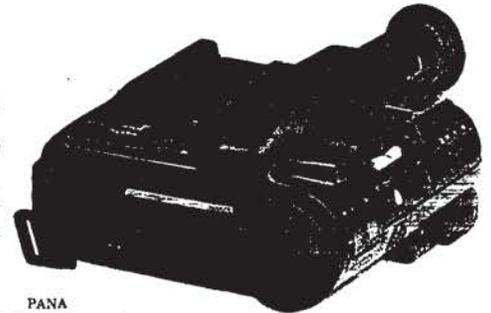


A prophet with little recognition in his own land:

that uses fuzzy logic to recognize handwriting on its screen. They've discovered that "fuzzy" is a highly effective way to control appliances. The next product on Japanese drawing boards is the fuzzy VCR—a product that should go over big in the United States, given the surveys that indicate many Americans can't figure out how to

How It Works

The Japanese have discovered dozens of commercial applications for fuzzy logic, which allows computers to operate with more of the flexibility of the human mind. Some examples of what the technology allows different products to do:

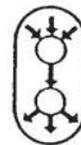


CAMERAS: It helps photographic equipment react automatically and subtly to changes in light conditions.



SUBWAYS: Fuzzy can help rearrange departure schedules to compensate for delays and bring trains to quiet stops.

TAB 14



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

6-20-91

Dear NNC Publications Committee,

Here is an potential action item.

The attached letter to me from Dr. Rosenfeld is self explanatory. I recommend that your committee review this situation and make any recomendations you feel appropriate to AdCom.

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

A handwritten signature in black ink, appearing to read 'R. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

INTELLIGENCE
PO Box 20008
New York, NY 10025-1510
212-222-1128 Voice & FAX

6-10-91

Dr. Robert Marks
IEEE Neural Networks Council Publications
Dept. of EE
U of WA - MS: FT-10
Seattle, WA 98195

Dear Bob:

Enclosed is the letter that you requested I write about the name of my newsletter, **INTELLIGENCE** - The Future of Computing, (founded November, 1983, first monthly issue published May, 1984) and the name of your Council's newest publication, *the intelligence connection*.

You told me on the phone that the Council's Publication Board would be meeting Sunday, 7 July 1991. I will be in Seattle that day and I would really appreciate the opportunity to address your Board meeting in person. Could you arrange that? I hope so.

Thanks for your time and attention. I'll see you in Seattle next month, and hope to hear from you soon.

Sincerely,



EDWARD ROSENFELD
Enclosures

INTELLIGENCE
PO Box 20008
New York, NY 10025-1510
212-222-1123 Voice & FAX

6-10-91

IEEE Neural Networks Council Publications Board
c/o Dr. Robert Marks
Dept. of EE
U of WA - MS: FT-10
Seattle, WA 98195

Dear Council Board Members:

I am writing this letter to put down on paper the protest I made in May orally in a telephone conversation with Dr. Robert J. Marks, II. I called Bob to talk about the name of my newsletter, **INTELLIGENCE** - The Future of Computing, and the name of your Council's newest publication, *the intelligence connection (tic)*.

As you may already be aware, I am a charter advertiser in your new publication. After several telephone conversations with Rosalind Snyder, I placed an ad in the first issue of *tic*. The name of your newsletter was never disclosed to me during those talks.

But the name of my newsletter was made known to Ms. (Dr.?) Snyder at that time, before the *tic* name had been chosen. I had also interviewed Dr. Marks earlier this year for a story in my newsletter and sent Bob a copy of that issue. So he, too, was aware of the name of my publication.

I founded **INTELLIGENCE** in November, 1983, registering the name in New York State. The first monthly issue was published in May, 1984. Since then, my efforts have received a great deal of attention and respect, including quotes and references in such publications as the *Wall Street Journal*, the *New York Times*, *Business Week*, *Forbes*, etc. In the summer of 1990, I purchased all of the rights and properties of a competing newsletter, *Synapse/Connection* and retired that name.

I was quite delighted when people began calling in response to my ad in *tic*. But my delight turned to consternation when several callers asked if my newsletter was the same as the IEEE newsletter where they had seen my ad. Then a friend faxed me your front page and I understood the confusion. Our names are too similar.

In order to end this confusion I would like to request that the IEEE Neural Networks Council rename its newsletter publication. Your new publication is just starting out, whereas I have spent close to a decade trying to build the brand name recognition required to keep a small publication like mine in business. *Neural Network(s) Connection* is available, and I believe that *Neural Network News* is now available, since that publication, too, ceased publication last year.

Thank you for your attention and consideration

Sincerely,



EDWARD ROSENFELD
Editor & Publisher

INTELLIGENCE

THE FUTURE OF COMPUTING

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WILLIAM PALEY AND GENERAL MOTORS: MAJOR NEW INVESTORS IN AI CORPS.

PALEY & OTHERS MAKE MAJOR INVESTMENT IN MARVIN MINSKY START-UP:

Thinking Machines Corporation, a new, Waltham, MA, company has been started and features some of the brightest and most able people in the Intelligence Industries. Sheryl Handler is president of TMC and a prime reason that investors William Paley, Frank Stanton, Jerome Wiesner and others have reportedly put up an eight digit stake to see that TMC gets off on the right foot. Ray Price, a former Nixon aide now working with Paley, confirmed Paley's investment but was mum on the amount of start-up capital involved.

Scientists associated with TMC include Marvin Minsky, one of the founders of artificial intelligence and Donner Prof. at MIT; Marvin Denicoff, recently retired from the AI program at the Office of Naval Research; Howard Resnikoff, from Harvard and the National Science Foundation; Gerald Sussman of MIT; and, also from MIT, W. Daniel Hillis.

Hillis is well known for his research into massive parallelism while at MIT. His parallel processing computer, known as the Connection Machine, is now in prototype construction at TMC according to Handler. Aid to this work will come by way of Richard Clayton, now TMC's VP for product development. Most recently, Clayton was VP for advanced manufacturing technology at Digital Equipment Corporation.

TMC has a corporate fellows program with an all-star line-up that includes Wiesner, Nobel laureate Richard Feynman of Cal Tech, Douglas Lenat of Stanford, Jacob Schwartz of NYU, Tomaso Poggio of MIT, and Jayant Shah of Northeastern. C. Gordon Bell, formerly of DEC, will be a special advisor on the Hillis prototype.

In addition to his activities at TMC and MIT, sources confirmed to INTELLIGENCE that Marvin Minsky has been in negotiations with the Encyclopædia Britannica, Inc., on their electronic encyclopedia project. More on this important story as information becomes available.

GM BUYS INTO TEKKNOWLEDGE, BUYS FROM ROBOMATION, FLIRTS WITH EDS:

General Motors has purchased a minority interest in Teknowledge, a Palo Alto company that markets knowledge engineering software tools and training. GM indicated that its purchase of an 11% stake was not a preamble to a takeover of Teknowledge. Nils Muench, head of computer science at GM, told INTELLIGENCE that GM recognizes the importance of AI related technologies. He said that he expected that GM will use Teknowledge's expert systems expertise in the development of auto diagnostic systems for GM products. Such systems are still several years from incorporation in consumer models. Muench did indicate that the use of such systems might appear earlier for internal use by GM. He said that GM had no further investments planned in other AI-related companies.

But GM is active in the robotics field. Its wholly-owned subsidiary, GMFanuc Robotics Corporation of Troy, Michigan recently indicated that it will spend up to \$60 million over the next six years to purchase a vision/image analysis system from International Robomation/Intelligence of Carlsbad, CA. The IRI system will be used for the manufacturing systems for the Saturn, GM's future small car.

(continued on page 2)

In the meantime, Wall St. insiders have been all worked up over rumors that GM will purchase, outright, H. Ross Perot's Electronic Data Systems Corporation. GM chairman Roger Smith recently told an auto industry publication that if he was able to do what he wanted GM would soon have a division to deal with fields related to electronic products. Others have speculated that GM wants EDS to help in the development of robotics software. GM recently purchased 10% of Philip Crosby & Associates, a consulting firm that specializes in manufacturing quality-control.

All of this GM activity will probably first be put into action at the GM factory-of-the-future at the concern's Saginaw (MI) steering gear division which expects to have a pilot program in operation in the fall of 1985 and achieve full automated, computer-controlled production by 1987.

EXPERT SYSTEMS FOR PERSONAL COMPUTERS

A variety of software products have reached the personal computer market in 1984 that bring with them the promise of artificial intelligence technologies. The granddaddy of AI software, "Intellect" from Artificial Intelligence Corp., is available to let you interrogate your mainframe from your PC at a price of \$17,500. "Power" from Expertware, Inc., aids software development and runs on your PC at a price of less than \$10,000. "TK!Solver" from Software Arts is billed as an equation solver. Microrim's "Clout" is a natural language front-end for interrogating that company's DBMS: "R:base". "In-Search" provides a similar front-end for talking with the Lockheed on-line database Dialog. Human Edge Software's the "Sales Edge" and "Management Edge" provides question/answer formats for building business strategies. Excalibur Technologies' "Savy" and Texas Instrument's "Naturallink Technology Package" also provide natural language front-ends for PC users.

But the most exciting product yet to appear in the AI for the PC market is Expert Software International's expert systems generator, "Expert-Ease". This program enables PC users to develop their own expert systems. It does this because of a special set of formulas (algorithms called an inference engine) that enable Expert-Ease to examine data and extract rules from the data.

Expert-Ease's inference engine was developed by one of the original pioneers in artificial intelligence, Donald Michie (pronounced: mickey) and his one-time graduate student, Ross Quinlan (now at the University of New S. Wales). Michie, who Edward Feigenbaum credits with alerting him to the importance of the Japanese Fifth Generation computing project, is in the process of leaving the Univ. of Edinburgh, where he started the AI program, to start a new, similar department at Scotland's Strathclyde U.

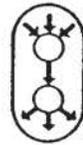
What makes Expert-Ease so exceptional is the ability of its inference engine to find rules. Data is entered into the program and the inference engine finds the rules that connect the data and presents these rules to the user. Though the program is expensive, \$150 for a demonstration disk, \$2,000 for the complete implementation, it is the only AI PC program seen to date that really makes use of AI software technologies for microcomputers.

Expert systems allow the knowledge and expertise of a specialist to be made available to anyone who interrogates the expert system program. Expert-Ease brings this innovative new AI technology to the world of microcomputer users. The program is available in the Eastern U.S. from Expert Systems, Inc. in New York City and in the West from J. Perrone & Assocs. in San Francisco. The software runs on IBM PCs and compatibles. It requires two double-sided, disk drives and a minimum of 128K RAM.

LOTUS DEVELOPMENT AND AI

When Peter Gabel left Lotus' advanced development group to start his own company, Prelude Development, the latter's first contract for AI development was from Lotus. Now, word has it that Lotus is hard at work on its own AI software development. The rumor is Lotus is working to bring its own AI software to market before Prelude. Stay tuned.

TAB 15



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Publications Committee,

The following is an information item.

The attached motion was passed at the June 1991 San Francisco TAB meeting.

With the concurrence of Vice President Eberhart, I committed to the suggested increase from \$75 to \$95 for our Transactions. This primarily affects library subscriptions.

A handwritten signature in black ink, appearing to read 'R. J. Marks II', with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

Motion:

That TAB endorse the 1992 non member subscription prices, including All Periodicals Package as presented by the TAB Finance Committee for recommendation of approval by the IEEE Executive Committee.

TAB offers each Society the option of accepting the recommendation of TAB Finance Committee with respect to non-member subscription prices or of continuing as originally presented by the Society.

4.42 (N) + 1.5

IEEE TECHNICAL ACTIVITIES

PROPOSED NON-MEMBER & ALL PERIODICALS PACKAGE PRICES FOR 1992

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S/C	PUBL	IS	EQUIV PAGES	TOTAL PAGES	92 BASE PR	S/C 92 LIST PR	92 LP/BP	DAHL '92 LIST PR	DAHL PR VS BASE PR	DAHL PR VS S/C PR
SP-01	* T-SP	12	3000	3000	254.04	260.00	1.02	310.00	1.22	1.19
	* M-SP	4	224	224	70.86	60.00	0.85	60.00	0.85	1.00
	* T-IP	4	500		101.91	122.00	1.20		0.00	0.00
BT-02	* T-BC	4	92	184	48.28	40.00	0.83	50.00	1.04	1.25
AP-03	* T-AP	12	1700	1700	197.17	212.00	1.08	265.00	1.34	1.25
	* M-AP	6	240	480	77.07	85.00	1.10	90.00	1.17	1.25
CAS-04	* T-CAS	12	1696		196.97		0.00	295.00	1.50	1.06
	* T-CAS1	12	1088	1088	162.54	177.00	1.09		0.00	0.00
	* T-CAS2	12	896	896	149.72	163.00	1.09		0.00	0.00
	* T-CAD	12	1648	1648	194.50	260.00	1.34	260.00	1.34	1.00
	* T-CSVT	4	400	400	92.00	100.00	1.09	115.00	1.25	1.15
NPS-05	* T-NS	6	946	1892	141.18	141.00	1.00	170.00	1.20	1.21
	* T-PS	6	1250	1250	160.49	160.00	1.00	180.00	1.12	1.13
VT-06	* T-VT	4	596	596	110.54	90.00	0.81	90.00	0.81	1.00
R-07	* T-R	5	640	640	116.25	100.00	0.86	96.00	0.83	0.96
CE-08	* T-CE	4	800	800	126.79	115.00	0.91	135.00	1.06	1.17
IH-09	* T-IH	6	1088	1088	150.54	135.00	0.90	125.00	0.83	0.93
AES-10	* T-AES	4	1000	1000	140.82	140.00	0.99	130.00	0.92	0.93
	* M-AES	12	560	560	123.39	70.00	0.57	65.00	0.53	0.93
NN-11	* T-NN	6	960	960	142.13	75.00	0.53	95.00	0.67	1.27
IT-12	* T-IT	7	1900	1900	197.07	215.00	1.09	245.00	1.24	1.14
IE-13	* T-IE	6	600	600	114.88	103.00	0.90	120.00	1.04	1.17
EM-14	* T-EM	4	464	464	98.47	98.00	1.00	105.00	1.07	1.07
	* M-EM	4	200	400	67.40	75.00	1.11	90.00	1.34	1.20
ED-15	* T-ED	12	3000	3000	254.04	288.00	1.13	315.00	1.24	1.09
	* L-ED	12	775	800	140.92	120.00	0.85	115.00	0.82	0.96
C-16	* T-C	12	1520	1520	187.75	257.00	1.37	295.00	1.57	1.15
	* M-C	12	1214	1214	170.34	234.00	1.37	250.00	1.47	1.07
	* T-SE	12	1200	1200	169.49	233.00	1.37	295.00	1.74	1.27
	* T-PAMI	12	1296	1296	175.20	240.00	1.37	255.00	1.46	1.06
	* T-KDE	6	632	632	117.59	161.00	1.37	160.00	1.36	0.99
	* T-PDS	6	760	760	127.79	174.00	1.36	150.00	1.17	0.86
	* M-G&A	6	630	630	117.42	160.00	1.36	175.00	1.49	1.09
	* M-MICR	6	600	600	114.88	157.00	1.37	165.00	1.44	1.05
	* M-D&T	4	400	400	92.00	125.00	1.36	140.00	1.52	1.12
	* M-SOFT	6	660	660	119.90	164.00	1.37	175.00	1.46	1.07
	* M-EXP	6	568	568	112.10	153.00	1.36	165.00	1.47	1.08
	* A-HC	4	336	336	84.99	95.00	1.12		0.00	0.00
MTT-17	* T-MTT	12	2300	2300	225.42	225.00	1.00	280.00	1.24	1.24
	* L-MGM	12	512	512	119.04	120.00	1.01	140.00	1.18	1.17
EMB-18	* T-EM	12	1264	1264	173.32	206.00	1.19	215.00	1.24	1.04
	* M-EM	4	336	336	84.99	78.00	0.92	75.00	0.88	0.96
COM-19	* T-COM	12	1750	1750	199.70	160.00	0.80	195.00	0.98	1.22
	* M-COM	12	1100	1100	163.30	90.00	0.55	105.00	0.64	1.17
	* J-SAC	9	1700	1700	191.17	147.00	0.77	185.00	0.97	1.26
	* M-NET	6	400	400	96.00	85.00	0.89	98.00	1.02	1.15
	* M-LTS	4	400	400	92.00	75.00	0.82	75.00	0.82	1.00
UFFC-20	* T-UFFC	6	896	896	137.72	169.00	1.23	220.00	1.60	1.30
CHMT-21	* T-CHMT	6	1400	1400	169.15	185.00	1.09	145.00	0.86	0.78
OE-22	* J-OE	4	516	516	103.41	100.00	0.97	115.00	1.11	1.15
CS-23	* T-AC	12	1680	1680	196.15	235.00	1.20	290.00	1.48	1.23
	* M-CS	7	588	588	115.84	120.00	1.04	115.00	0.99	0.96
RA-24	* T-RA	6	824	824	132.56	124.00	0.94	145.00	1.09	1.17
Ed-25	* T-Ed	4	400	400	92.00	98.00	1.07	98.00	1.07	1.00

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

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S/C	PUBL	IS	EQUIV PAGES	TOTAL PAGES	S/C			DAHL '92 LIST PR	DAHL PR VS BASE PR	DAHL PR VS S/C PR	
					92 BASE PR	92 LIST PR	92 LP/BP				
PC-26	* T-PC	4	288	288	79.28	75.00	0.95	80.00	1.01	1.07	
EMC-27	* T-EMC	5	450	450	99.10	93.00	0.94	95.00	0.96	1.02	
SMC-28	* T-SMC	6	1536	1536	176.61	146.00	0.83	140.00	0.79	0.96	
GRS-29	* T-GRS	6	1100	1100	151.30	147.00	0.97	135.00	0.89	0.92	
SIT-30	* M-T&S	4	176	176	63.72	64.00	1.00	65.00	1.02	1.02	
PE-31	* M-PER	12	900	900	150.00	95.00	0.63	110.00	0.73	1.16	
	* T-EC	4	400	800	92.00	105.00	1.14	125.00	1.36	1.19	
	* T-PWRS	4	800	1600	126.79	120.00	0.95	155.00	1.22	1.29	
	* T-PWRD	4	1050	2100	144.10	125.00	0.87	145.00	1.01	1.16	
	* M-CAP	4	288	288	79.28	61.00	0.77	70.00	0.88	1.15	
DEI-32	* T-EI	6	1224	1224	158.94	150.00	0.94	145.00	0.91	0.97	
	* M-EI	6	362	408	91.91	108.00	1.18	99.00	1.08	0.92	
MAG-33	* T-MAG	6	2450	4052	219.89	263.00	1.20	325.00	1.48	1.24	
IA-34	* T-IA	6	1642	1642	182.19	183.00	1.00	185.00	1.02	1.01	
PEL-35	* T-PE	4	656	656	115.57	120.00	1.04	120.00	1.04	1.00	
LEO-36	* J-QE	12	2752	2752	244.33	305.00	1.25	390.00	1.60	1.28	
	* L-PT	12	1200	1200	169.49	211.00	1.24	195.00	1.15	0.92	
SSC-37	* J-SSC	12	2050	2050	214.16	203.00	0.95	235.00	1.10	1.16	
THI-916	* T-MI	4	624	624	112.92	105.00	0.93	110.00	0.97	1.05	
JLT-919	* J-LT	12	2288	2288	224.90	280.00	1.25	350.00	1.56	1.25	
DivI-921	* M-C&D	6	378	400	93.60	100.00	1.07	98.00	1.05	0.98	
CSM-923	* T-SM	4	378	400	89.60	90.00	1.00	90.00	1.00	1.00	
SCC-925	* T-ASC	4	248	248	74.14	80.00	1.08	95.00	1.28	1.19	
MEMS-926	* T-MEMS	4	320	320	83.13	100.00	1.20				
TOTAL					563	75704	78954	10748.12	11103.00	11799.00	
NON-APP P											
ED-15	* J-ECMA	12	1200	1200	169.49	170.00	1.00	140.00	1.21		
MAG-33	* TJMJ	12									

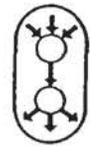
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LIST PRICE: DETERMINED BY SOCIETY/COUNCIL
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%FTP: PERCENT ALLOCATION FOR THAT PUBLICATION FROM FTP

CREATED MARCH 13, 1991

#Received "Request for Waiver" letters for Finance Committee

FTP92.WK1

TAB 16



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Publications Committee,

The following is an information item.

At the recommendation of Newsletter Production Editor, and consistent with the action of the NNC AdCom, the attached contract was signed with Newsletter Managing Editor, Roz Snyder.

A handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

Contract for Editing Services

This agreement, made and entered into this 20th day of February 1991, by and between Rosalyn Snyder (SSN 249 80 1520) hereinafter referred to as the Managing Editor, and the Advisory Committee of the IEEE Council on Neural Networks, hereinafter referred to as the Ad Com: The Managing Editor agrees to provide the following services to the Ad Com in conjunction with the production of the Newsletter of the Society:

1. Soliciting, writing, and editing newsletter articles at the direction of and subject to the approval of the Editor appointed by the Ad Com
2. Design and layout
3. Computer Laser Printer Typesetting and production of PostScript files using her facilities
4. Dummy preparation
5. Correspondence with authors, subscribers, advertisers, IEEE administration (regarding Newsletter production), and printers
6. Soliciting and billing for advertisements

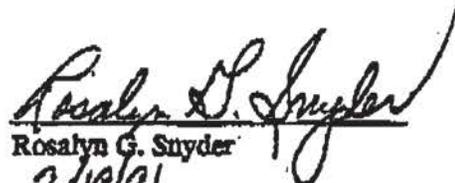
The Ad Com agrees to pay the Managing Editor at the rate of \$155.00 per page for each issue of the Newsletter. In addition the AdCom will reimburse the Managing Editor for telephone, printing (e.g. letterhead), and mailing expenses, and for actual travel expenses to attend one AdCom meeting per year. Any other reimbursable expenses must be approved in advance by the President of the AdCom.

The Ad Com will be billed directly by the IEEE for printing and mailing of each issue of the Newsletter.

Approved:



Robert J. Marks II
President, Advisory Committee
IEEE Council on Neural Nets



Rosalyn G. Snyder

2/19/91
Date

2/27/91
Date



Charles J. Robinson
Production Editor
IEEE Council on Neural Nets

3/6/91
Date

A definite acceptance will occur upon receipt of a signed original or a facsimile of a signed original by all signees. If a FAX transmittal is used by any party, then the FAX copy shall serve as an original unless an actual original is executed and received by all parties within ten (10) days.

TAB 17



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO

May 10, 1991

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Gentlemen:

I hereby submit a revised budget for IJCNN'92 Baltimore. The difference in the revised budget is the insistence by INNS that the registration fee for members be below \$200. The revised budget reflects that requirement.

The new registration fee structure consists of three time periods as indicated in the budget: \$195 before February 1, 1992; \$245 before April 20; and \$295 after April 20 and on-site, all for members. There is a corresponding three-period fee structure for non-members. Assuming that only 5% of the attending members and 2% of non-members would take advantage of the early-early registration fee, the impact on the income is to reduce it by \$4,200 for an attendance of 1,200. The net projection is a surplus of \$40,500 (instead of the previous \$44,700), again for 1,200 attendees. Projections for different attendance is included in the budget submission. Of course the projections are dependent on the educated assumptions. This new fee structure would allow members to register below \$200 as required by INNS (at \$195 before February 1, 1992), and would encourage attendance by IEEE and INNS members.

I hope this revised budget meets with your approval. If that is the case, please send me written notice so that it is documented. At this time, planning for the conference is continuing, but any activity that requires the expenditure of conference funds is being suspended until written approval is received from both IEEE and INNS.

Naturally I assume the INNS is as interested in a successful IJCNN'92 as the IEEE. We would like to start printing the brochures by the end of May so that the brochures would be available for the Seattle meeting. Your expeditious approval of this revised budget is greatly appreciated.

Sincerely yours,

A handwritten signature in cursive script that reads "Lau".

Clifford Lau, IJCNN'92 Baltimore Chair



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO

May 10, 1991

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Gentlemen:

Earlier today I had sent you a revised budget for your approval. Based on the experience with the Seattle meeting, I made another budget analysis using a different set of assumptions.

I hereby submit another revised budget for IJCNN'92 Baltimore. The new registration fee structure still consists of three time periods as indicated in the budget: \$195 before March 30, 1992; \$245 before May 15; and \$295 after May 15 and on-site, all for members. There is a corresponding three-period fee structure for non-members. The net impact is that the projected surplus would be \$17,700 for 1,200 attendees (instead of the previous \$40,500). This new fee structure would allow those with accepted papers to register at the early-early registration rate of \$195 since we plan to send out notification of acceptance on March 6, 1992.

I hope this newly revised budget meets with your approval. If that is the case, please send me written notice so that it is documented. Again planning for the conference is continuing, but any activity that requires the expenditure of conference funds is being suspended until written approval is received from both IEEE and INNS.

Naturally I assume the INNS is as interested in a successful IJCNN'92 as the IEEE. We would like to start printing the brochures by the end of May so that the brochures would be available for the Seattle meeting. Your expeditious approval of this revised budget is greatly appreciated.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Clifford Lau".

Clifford Lau
IJCNN'92 Baltimore Chair

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IJCNN'92 Baltimore Preliminary Budget

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$501,400	\$563,550	\$625,700	\$687,850	\$750,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$551,400	\$613,550	\$675,700	\$737,850	\$800,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$17,700	\$52,850	\$85,800	\$116,550	\$147,300

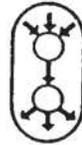
1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IJCNN'92 Baltimore Preliminary Incomes

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before March 30, 1992		\$195	\$235			
3	Before May 15, 1992		\$245	\$285	\$75		
4	After May 15, 1992		\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (20%)		\$46,800	\$54,600	\$62,400	\$70,200	\$78,000
16	Early - member (15%)		\$44,100	\$51,450	\$58,800	\$66,150	\$73,500
17	Early-early nonmem. (5%)		\$14,100	\$16,450	\$18,800	\$21,150	\$23,500
18	Early - nonmember (15%)		\$51,300	\$59,850	\$68,400	\$76,950	\$85,500
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (15%)		\$53,100	\$61,950	\$70,800	\$79,650	\$88,500
21	Late - nonmember (10%)		\$40,200	\$46,900	\$53,600	\$60,300	\$67,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$269,400	\$314,300	\$359,200	\$404,100	\$449,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial Income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other Income (int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$501,400	\$563,550	\$625,700	\$687,850	\$750,000

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IJCNN'92 Baltimore Preliminary Expenses Budget

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

TAB 18



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

DEAR MEMBERS OF THE IOC,

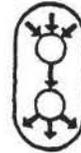
ATTACHED ARE COPIES OF RELEVANT CORRESPONDANCE SINCE THE LAST IOC MEETING.

AS PRESIDENT OF THE IEEE NEURAL NETWORKS COUNCIL, I REQUEST DISCUSSION OF THE FOLLOWING ITEMS AT THE IOC MEETING.

1. WHAT IS THE CURRENT STATUS THE MATTER DISCUSSED IN MY LETTER TO WERBOS DATED 3-1-91? THE LETTER AND CONFERENCE CALL-FOR-PAPERS IS ATTACHED.
2. WHAT IS THE STATUS OF THE FINANCES AND AUDIT ON THE WASHINGTON D.C. 1990 IJCNN? THE NNC HAS NOT YET RECEIVED THE AUDIT REPORT NOR HAS ALL OF THE SURPLUS FROM THE CONFERENCE BEEN DIVIDED BETWEEN OUR TWO SOCIETIES. THIS IS VIOLATION OF IEEE POLICY AND OUR AGREEMENT. IEEE POLICY IN THIS REGARD IS OUTLINED IN THE ATTACHED LETTER TO PSALTIS FROM DeWALD (6-10-91).
3. IN MY 4-22-91 LETTER TO WERBOS, THE SECOND BUDGET ADDENDUM SUGGESTED BY THE INNS IS REJECTED. MY UNDERSTANDING, HOWEVER, IS THAT THESE ITEMS HAVE BEEN ADOPTED BY THE CONFERENCE. HOW DOES THE IOC RECOMMEND RECONCILING THESE BUDGET DISCREPANCIES?
4. THE USE OF SEED MONEY BY INNS FROM CONFERENCE TO CONFERENCE WAS DISCUSSED AT THE LAST IOC AND WAS SPECIFICALLY ADDRESSED IN THE DISSOLUTION AGREEMENT. WHAT IS THE STATUS OF THIS MONEY?

A handwritten signature in black ink, appearing to read 'R. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

3-1-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dear Paul:

I enclose a flyer for a conference entitled *International Conference on Artificial Neural Networks in Engineering* to be held November 10-12, 1991 in St. Louis, Missouri. The INNS (Midwest Special Interest Group) is listed as a Co-sponsor. The Singapore IJCNN will be held the week after this conference.

Please note that paragraph 14 of the Agreement between our two Societies states, in part,

BOTH ORGANIZATIONS WILL REFRAIN FROM SPONSORING OTHER MAJOR ACTIVITIES IN THE FIELD OF ARTIFICIAL NEURAL NETWORKS WITHIN ONE MONTH OF EACH IJCNN. BOTH SOCIETIES MUST AGREE TO COOPERATE ON INVOLVEMENT IN ANY MAJOR NEURAL NETWORK CONFERENCE ACTIVITIES HELD WITHIN 30 DAYS OF AN IJCNN.

Since the Council is not participating in the conference, and since the title *International Conference* clearly identifies the intent of the organizers that this be both a major activity and a major conference, there is an apparent violation of the Agreement by the INNS.

I assume that this action took place without the knowledge or approval of the INNS Governing Board. On behalf of the Council ExCom, I call it to your attention with the hope that you will take immediate steps to return to compliance with the Agreement. Doing so, I believe, will make the joint effort of the INNS and the Council in Singapore more successful.

I look forward to your response.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Roy S. Nutter, IOC Chair
Mary Ann DeWald, IEEE Conference Services
NNC ExCom:
Russ Eberhart, NNC VP
Michael W. Roth, Transactions Ed.
Evangelia Tzanakou, Secretary
Patrick K. Simpson, NNC Treasurer

File

Conference Tutorials

The organizing committee intends to arrange tutorials to be held in conjunction with the conference. Interested individuals should contact Dr. Cihan H. Dagli.

Exhibitors

Limited space will be available for companies or research institutions to display their work and products. Interested individuals should contact:

Walter Ries
Continuing Education
119 Mechanical Engineering Annex
University of Missouri-Rolla
Rolla, Missouri 65401
Phone (314) 341-4132 or 1-800-752-5057
FAX (314) 341-4992

Spouses' Programs

In conjunction with the conference, various tours and special events will be offered in and around the St. Louis area. Possible sites include the Gateway Arch, St. Louis Zoo, and historic St. Charles, etc.

Authors' Schedule

March 15, 1991
Deadline for contributed paper abstract and letter of intent

March 29, 1991
Deadline for invited session proposals

April 15, 1991
Initial notification of invited session status

June 14, 1991
Deadline for full papers

August 1, 1991
Notification of status of contributed papers and invited sessions

September 2, 1991
Deadline for camera-ready manuscripts



International Conference on
Artificial Neural Networks in Engineering,
ANNIE '91
University of Missouri-Rolla
Engineering Management Department
Rolla, Missouri 65401-0249

ANNIE '91

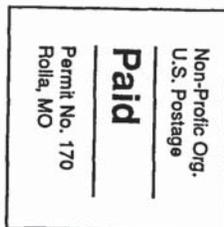
**International Conference
on
Artificial Neural Networks
in Engineering**

Call for Papers

**November 10-12, 1991
Marriott's Pavilion Hotel
St. Louis, Missouri**

Organized By:
Intelligent Systems Center
University of Missouri-Rolla
Rolla, Missouri

Co-sponsored by:
INNS, Midwest Special Interest Group, USA
McDonnell Douglas Corporation
Center for Optimization and Semantic Control,
Washington University in St. Louis



UNIVERSITY OF MISSOURI-ROLLA

ARTIFICIAL NEURAL NETWORKS IN ENGINEERING

The First International Conference on Artificial Neural Networks in Engineering ANNIE '91 will be held on November 10-12, 1991, at Marriott's Pavilion Hotel in downtown St. Louis, Missouri, USA. The organizing committee invites all persons interested in the applications of artificial neural networks in engineering to submit papers for presentation at the conference.

The conference will cover the theory of artificial neural networks and its applications in the engineering domain. The objective of the conference is to bring together researchers in the field of neural networks and exchange ideas on their applications to engineering problems. Presentations dealing with artificial neural network implementations in manufacturing, integration of artificial neural networks with expert systems, reinforcement learning, fuzzy associative memory and process control using artificial neural networks are encouraged.

Topics of Interest

The conference will cover the following, but not be restricted to the following topics:

- Artificial Neural Network Architectures
 - Associative Memory
 - Image Processing
 - Learning Algorithms
 - Artificial Neural Networks Applications in Manufacturing
 - Optimization
 - Robotics Control
 - Process Control
 - VLSI Construction
 - Artificial Neural Network Applications in Engineering
 - Modeling with Artificial Neural Networks
 - Hybrid Systems (AI, Artificial Neural Networks and Fuzzy Integration)
 - Genetic Algorithms
 - Performance Analysis
 - Algorithm Design Using Artificial Neural Networks
- Papers and workshop proposals relevant to these or closely related areas are invited.

Call for Contributed Papers

The organizing committee invites all persons interested in the applications of artificial neural networks in engineering to submit papers for presentation at the conference. All papers accepted for presentation will be published in the conference proceedings.

All papers will be reviewed for technical merit and content by senior researchers in the field to assure a high-quality conference and proceedings based on full paper submissions. Authors are requested to send a letter of intent and a 200 word abstract by March 15, 1991. Full papers are due on June 14, 1991. Authors will be notified of the status of their submittal by August 1, 1991 and camera-ready manuscripts will be due by September 2, 1991. Approximately six pages will be allocated for each accepted paper in the proceedings. Authors should forward their letter of intent, abstract and full paper to:

Dr. Cihan H. Dagli, General Chair
Engineering Management Department
205 Engineering Management Building
University of Missouri-Rolla
Rolla, Missouri 65401-0249
USA
(314) 341-4374
E-Mail: C3260@UMRVM.BITNET

Call for Invited Sessions

Invited sessions are requested in the topics relevant to the conference. Interested individuals must submit a proposal, including the title of the session, title of papers, extended abstracts and a list of authors by March 29, 1991 to Dr. Cihan H. Dagli. Session organizers will be notified by April 15, 1991 regarding the appropriateness of their session. Full papers are due on June 14, 1991. Finalization of the session will be done by August 1, 1991 based on the result of the review process. Tutorials, perspective papers and case studies are highly encouraged for these sessions.

Organized by:
Intelligent Systems Center
University of Missouri-Rolla, USA

Co-sponsored by:
International Neural Networks Society, Midwest
Special Interest Group, USA
McDonnell Douglas Corporation, St. Louis, USA
Washington University, Center for Optimization and
Semantic Control, St. Louis, USA

Conference General Chairman:
Prof. Cihan H. Dagli, University of Missouri-Rolla, USA
Conference Co-chairmen:
Prof. Soundar Kumara, Pennsylvania State University,
Prof. Yung C. Shin, Purdue University, USA

Organizing Committee:
Prof. Nirmal K. Bose, Pennsylvania State University,
Prof. Bernard Dubuisson, University of Compiègne,
France
Prof. Chi-Ming Chang, Electronics Research and
Service Organization, Taiwan
Prof. George Dorffner, Austrian Res. Inst. for AI, Austria
Prof. Jim Garrett, Carnegie-Mellon University, USA
Prof. Inyong Ham, Pennsylvania State University, USA
Prof. Issam A. Hamid, University of Montreal, Canada
Prof. Susan I. Hruska, Florida State University, USA
Prof. S. S. Iyengar, Louisiana State University, USA
Prof. R. L. Kashyap, Purdue University, USA
Prof. H. Dean Keith, University of Missouri-Rolla, USA
Prof. Andrew Kusiak, University of Iowa, USA
Prof. Steven C-Y Lu, University of Illinois, USA
Mr. Thomas Mctigue, McDonnell Douglas, USA
Prof. Pierre Morizat, University of Compiègne, France
Prof. Setsuo Ohsuga, University of Tokyo, Japan
Prof. Youchi Okabe, University of Tokyo, Japan
Prof. Yildirim Omurtag, University of Missouri-Rolla,
Prof. Gary K. Patterson, University of Missouri-Rolla,
Prof. Russell Pimmel, University of Missouri-Columbia,
Prof. Ervin Y. Rodin, Washington University, St. Louis
Prof. Steven K. Roger, Air Force Inst. of Technology,
Prof. Mohammed Sayeh, Southern Illinois University,
Mr. Patrick K. Simpson, General Dynamics, USA
Prof. Harold Szu, Naval Research Laboratory, USA
Prof. Robert Trappl, Austrian Res. Inst. for AI, Austria
Prof. Francis T. Yu, Pennsylvania State University, USA

Conference Coordinator:
Walter Ries, University of Missouri-Rolla



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562- 3873

June 10, 1991

Prof. Demetri Psaltis
California Inst. of Technology
Elec. Engrg. Dept., M/S 116-81
Pasadena, CA 91125

RE: **1991 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS (IJCNN
- '91 - Seattle, WA)
Meeting #2617**

Dear Prof. Psaltis:

Enclosed is IEEE's official acceptance of the submitted budget for the 1991 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS (IJCNN - '91 - Seattle, WA), which is scheduled to be held in Seattle, WA on July 8 - 14, 1991.

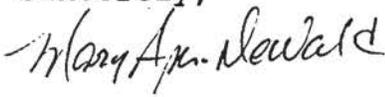
We would like to remind you that IEEE Policy Statement 10.9N requires submission of a preliminary financial report within approximately three (3) months after the close of the meeting and a detailed financial report is required no later than six (6) months after the conference.

Also, IEEE Policy Statement 10.24 requires that all IEEE sponsored or cosponsored conferences with actual budgeted income or expense of \$250,000 or more be audited by an independent professional auditor and that all conferences wholly sponsored by IEEE with actual or budgeted income or expense between \$100,000 and 250,000 have their financial records audited either by professional auditors or an audit committee composed of individuals who have no direct or indirect responsibility for the financial transactions of the conference. Further, all conferences wholly sponsored by IEEE with budgeted income or expense totaling \$75,000 or more must advise IEEE of the manner in which their financial records will be audited should their actual income or expense total \$100,000 or more.

Currently, the IEEE umbrella insurance policy applies to conferences in all Regions. However, if you plan to have any special tours, it is suggested that in Regions 1-7, you contact Mr. Charles Stewart, (212) 705-7769, at the New York Office. In Regions 8-10, inquire locally to determine whether additional insurance coverage is required.

If there are any questions regarding this budget acceptance, please feel free to contact me.

Sincerely,



Mary Ann DeWald
Administrator
Conference Services

cc: N. DeClariss ✓
R. J. Marks ✓
E. Rosenberg
P. Sensi



THE INSTITUTE OF ELECTRICAL
AND ELECTRONICS ENGINEERS, INC.

TECHNICAL ACTIVITIES BOARD

IEEE

345 East 47th Street
New York, N.Y. 10017-2394, U.S.A.

CONFERENCE BUDGET ACCEPTANCE

Conference Name: 1991 International Joint Conference on Neural Networks
(IJCNN-91-Seattle, WA)
Meeting #2617

Dates: July 8-14, 1991

Location: Sheraton Seattle Hotel
Seattle, WA

	GROSS CONFERENCE BUDGET	SPONSOR(S)/COSPONSOR(S)	% FINANCIAL SHARE
Receipts	\$449,000.00 (1&2)	NN	50%
Expenses	\$371,645.00 (1)	INNS	50%
Adv. loans	\$50,000.00		
Net Surplus	\$77,355.00		
Net % of Expenses	22%		

Remarks:

- (1) Advance loan(s) not included.
- (2) IEEE Headquarters agrees to purchase 1200 (2075 est. pgs. - 2700 print run) copies of Conference Proceedings at a cost of \$50.07 each.

ACCEPTANCE FOR S/C AND REGIONS AND SECTIONS

S/C/Reg/Sec Representative	S/C/Reg/Sec Affiliation	Letter Date	Phone Date
R. J. Marks	President - NNC	04/22/91	
D. Psaltis	Conference Co-Chairman	10/08/90	
N. DeClaris	Conference Co-Chairman	10/08/90	
*D. R. Schafer	Chairman, IEEE Seattle Section	10/02/90	

*Section Advised Information Only

Distribution:

Prof. Robert J. Marks, II
Dept. of Elec. Engrg.
University of Washington
MS FT-10
Seattle, WA 98195

Prof. Demetri Psaltis
California Inst. of Technology
Elec. Engrg. Dept., M/S 116-81
Pasadena, CA 91125

Prof. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759

ACCEPTANCE FOR IEEE

[Signature] _____ 05/28/91
Manager, Conference Activities Date

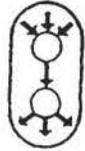
[Signature] _____ 5/30/91
Staff Director, Technical Activities Date

[Signature] _____ 6/10/91
Associate General Manager Date

cc: IEEE Controller's Office



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

February 5, 1991

Laura Jobmann
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Laura:

The attached budget for the 1991 International Conference on Neural Networks has been approved by the NNC Ad Com at the 1250 projected attendance level.

Sincerely,


Robert J. Marks II, President
IEEE Neural Network Council

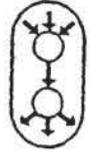
RJM:rw

cc: Patrick K. Simpson, NNC Treasurer
Evangelia Tzanahan, NNC Secretary
Roy Nutter, NNC Meetings Committee Chair
IOC Chair
Russ Eberhart, NNC VP
Paul Werbos, INNS

enclosure



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

4-22-91

RECEIVED

APR 22 1991

CONFERENCE SERVICES
DEPARTMENT

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul,

I recently received a proposal for the Council to addend the budget of the Seattle IJCNN to allow an additional \$13,600 for the purpose of publishing abstracts of papers which had previously been rejected. The specific proposal was

Publishing:	\$6000 to \$8000
Meeting Management:	\$2500 to \$5000
Poster boards:	\$600

At its ExCom Meeting on April 22nd, the Council ExCom unanimously rejected this request.

The Council would favorably entertain a budget addendum whereby additional refereed papers would be published in their entirety with the same status as those papers already accepted. The Council recognizes that this will result in an expenditure far in excess of \$13k.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

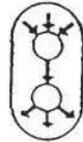
P.S. I ask that any other actions by the INNS which effect the Council be communicated, in writing, either to the IOC Chair or me, as appropriate.

cc: Roy Nutter, IOC Chair
 Laura Jobmann, IEEE TAB
 George Lendaris, Seattle IJCNN Finance Chair
 Sarah Eck, University of Washington Conference Services

NNC ExCom
 David Rumelhart, Sea IJCNN Chair
 Mary Ann DeWald, IEEE Conf. Ser.



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 5, 1991

IEEE Conference Services
Attention: Mary Ann DeWald
P.O. Box 1331
Piscataway, NJ 08855-1331

I recently forwarded a budget for the IJCNN but neglected to append an addendum approved by the Council's AdCom in January. Please addend the budget with \$20,000 in additional expenses categorized as follows:

\$ 2,500 Tutorial Administrative Costs
5,000 Seattle Program Committee Meeting, March 13, 1991
12,500 Additional funds for Tutorial Speakers

\$20,000 Total

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: George Lendaris, Seattle IJCNN Finance Chair
Paul Werbos, INNS
Russ Eberhart, Neural Networks Council Vice President
Patrick K. Simpson, Neural Networks Council Treasurer
Evangelia Tzanakou, Neural Networks Council Secretary

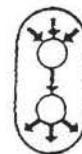
RECEIVED

MAR 6 - 1991

CONFERENCE SERVICES
DEPARTMENT



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

February 5, 1991

Laura Jobmann
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Laura:

The attached budget for the 1991 International Conference on Neural Networks has been approved by the NNC Ad Com at the 1250 projected attendance level.

Sincerely,


Robert J. Marks II, President
IEEE Neural Network Council

RJM:rw

cc: Patrick K. Simpson, NNC Treasurer
Evangelia Tzanahan, NNC Secretary
Roy Nutter, NNC Meetings Committee Chair
IOC Chair
Russ Eberhart, NNC VP
Paul Werbos, INNS

enclosure

UCNN-91-SEATTLE Expense Budget

8-Oct-91 Number of Attendees	1250	1500	1750	2000	2250	2500	2750	3000
MARKETING/PROMOTION								
Brochure Printing (75000)	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Mailing (50000)	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900
Mailing Lists (25000)	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125
Advertisements	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Public Relations/Press	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Miscellaneous Promotion	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Total Marketing	\$75,025							
SOCIAL FUNCTIONS								
Tuesday Eve Reception	\$15,625	\$18,750	\$21,875	\$25,000	\$28,125	\$31,250	\$34,375	\$37,500
Coffee Breaks	\$9,375	\$11,250	\$13,125	\$15,000	\$16,875	\$18,750	\$20,625	\$22,500
Press Functions	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Total Social Functions	\$35,000	\$40,000	\$45,000	\$50,000	\$55,000	\$60,000	\$65,000	\$70,000
REGISTRATION EXPENSES								
Credit Card Fees	\$2,578	\$3,093	\$3,609	\$4,124	\$4,640	\$5,155	\$5,671	\$6,186
Attendee Packet	\$12,513	\$14,300	\$16,088	\$17,875	\$19,663	\$21,450	\$23,238	\$25,025
Final Program	\$9,625	\$11,000	\$12,375	\$13,750	\$15,125	\$16,500	\$17,875	\$19,250
Meeting Mgr On-Site Exp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Phone/Postage/Etc.	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Meeting Mgr Fee	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Tot Reg. Expenses	\$57,466	\$67,393	\$77,321	\$87,249	\$97,177	\$107,105	\$117,033	\$126,961
MEETING RENT & FEES	\$30,000							
PUBLICATION EXPENSES								
Review Expenses	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900
Proceedings Publication	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Posters & Preim Program	\$10,375	\$11,500	\$12,625	\$13,750	\$14,875	\$16,000	\$17,125	\$18,250
Tot Pub Expenses	\$59,525	\$66,900	\$74,275	\$81,650	\$89,025	\$96,400	\$103,775	\$111,150
ADMINISTRATION EXPENSES								
Insurance/Bonding	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Security & Guards	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Audio/Visual Equipment	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500
Office Equip (fax,copy, etc.)	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Signage/Forms	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Telephone	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Auditing	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
Bookkeeping/Finance	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Tot Admin Expenses	\$48,500							
SEED MONEY TO 92 CONF	\$50,000							
COMMITTEE EXPENSES								
Tutorial Speaker Fees	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Travel Expenses, Tutorial	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550
Plenary Speaker Travel	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Committee Travel	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
2 Comp Suites (INNS/IEEE)	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280
Committee Phone Expenses	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Fax/Express Mail	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Tot Comm. Expenses	\$30,330							
EXHIBIT EXPENSES								
Hall Rental	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000
Exhibit Management	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Exhibit Coordination & Marketing	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800
Tot Exhibit Expenses	\$37,800							
Total Conference Expenses	\$421,648	\$443,948	\$466,251	\$488,554	\$510,857	\$533,160	\$555,463	\$577,766

Officially Submitted Budget

p. 1 of 2

Revised

8-Oct-80

UCNN-91-Seattle REVISED Budget Income

	Member	Non-Member	Student					
Early Pre-Reg Fee	\$185	\$265	\$56					
Late Pre-Reg Fee	\$225	\$305	\$76					
On-Site Reg Fee	\$385	\$465	\$95					
Tutorial Fee	\$185	\$165	\$68					
One-Day Fee	\$125	\$175						
Number of Attendees	1250	1500	1750	2000	2250	2500	3750	3000
Registration Income								
Member Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Non-Mem Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Member Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Non-Mem Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Member On-Site	\$69,125	\$82,950	\$96,775	\$110,600	\$124,425	\$138,250	\$152,075	\$165,900
Non-Member On-Site	\$86,625	\$103,950	\$121,275	\$138,600	\$155,925	\$173,250	\$190,575	\$207,900
Student Early	\$4,375	\$5,250	\$6,125	\$7,000	\$7,875	\$8,750	\$9,625	\$10,500
Student On-Site	\$8,313	\$9,975	\$11,638	\$13,300	\$14,963	\$16,625	\$18,288	\$19,950
Member One-Day	\$1,563	\$1,875	\$2,188	\$2,500	\$2,813	\$3,125	\$3,438	\$3,750
Non-Mem One-Day	\$2,188	\$2,625	\$3,063	\$3,500	\$3,938	\$4,375	\$4,813	\$5,250
Tot Regis. Income	\$343,688	\$412,425	\$481,163	\$549,900	\$618,638	\$687,375	\$756,113	\$824,850
Conference Prere Sales	\$1,125	\$1,350	\$1,575	\$1,800	\$2,025	\$2,250	\$2,475	\$2,700
Exhibitor	\$50,000							
Exhibitor Ads	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other Income								
Interest	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Advance from INNS	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Hotel Room Surcharge	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500
Social Func. Tickets	\$875	\$1,050	\$1,225	\$1,400	\$1,575	\$1,750	\$1,925	\$2,100
Tutorial Fees	\$27,563	\$33,075	\$38,588	\$44,100	\$49,613	\$55,125	\$60,638	\$66,150
TOTAL INCOME	\$498,000	\$573,650	\$648,300	\$722,950	\$797,600	\$872,250	\$946,900	\$1,021,550
TOTAL EXPENSES	\$421,845	\$443,948	\$468,251	\$488,554	\$510,857	\$533,180	\$555,483	\$577,766
NET SURPLUS	\$77,355	\$129,702	\$182,049	\$234,396	\$286,743	\$339,090	\$391,437	\$443,784
SURPLUS plus SEED MONEY	\$127,355	\$179,702	\$232,049	\$284,396	\$336,743	\$389,090	\$441,437	\$493,784

Revised

Officially Submitted
 Budget, p.2 of 2



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-1-91

Peri Sensi, Manager
IEEE Conference Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
201-562-3873
FAX: 201-562-1571

Dear Peri,

You have N. DeClaris and D. Psaltis listed as the Co-Chairs for the 1991 IJCNN. This is incorrect. The Chair is Dr. David Rumelhart at Stanford.

Sincerely,

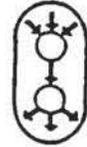
A handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: IOC



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 7, 1991

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D. C. 20550

Dear Paul:

Could you please let me know about the status of the request I made in the attached letter? As you know, the time will soon be here when publicity concerning the Singapore IJCNN is no longer effective.

Best regards,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

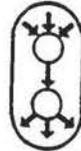
Enclosure

bc: Russ Eberhart, NNC VP
Teck Sing Low, IJCNN Singapore Chair

See



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

12-29-90

Dr. Paul J. Werbos, President-Elect
International Neural Network Society
Program Director, Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I need your help.

As you know, all IJCNN's thusfar have been publicized in the *IEEE Transactions on Neural Networks* as full page ads. This publicity was given without charge to either the INNS or the Council. This is as it should be.

Enclosed is a copy of an announcement for the Singapore IJCNN. In a spirit of parity, I request that it be included in the next available issue of the INNS journal. I hope that the enclosed copy is of camera-ready quality. If not, please let me know.

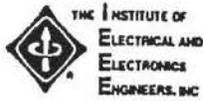
I would appreciate if you would let me know in which issue the announcement will appear.

Best regards,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Bernie Widrow, INNS President
Steven Grossberg, INNS Editor
Teck-Seng Low, Singapore IJCNN Chair
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President



INNS
INTERNATIONAL
NEURAL NETWORK
SOCIETY

The Official Airline
SINGAPORE AIRLINES



IJCNN'91 SINGAPORE

INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS

WESTIN STAMFORD & WESTIN PLAZA - SINGAPORE, NOVEMBER 18-21, 1991

Call For Papers

CONFERENCE

The IEEE Neural Networks Council and the International Neural Networks Society (INNS) invite all persons interested in the field of Neural Networks to submit **FULL PAPERS** for possible presentation at the Conference. **FULL PAPERS** must be received by 31 May 1991. All submissions will be acknowledged by mail. Authors should submit their work via Air Mail or Express Courier so as to ensure timely arrival. Papers will be reviewed by senior researchers in the field, and all papers accepted will be published in full in the Conference Proceedings. The Conference hosts tutorials on Nov 18 and tours arranged probably on Nov 17 and Nov 22, 1991. Conference sessions will be held from Nov 19-21, 1991. Proposals for tutorial speakers & topics should be submitted to Professor Toshio Fukuda (address below) by Nov 15, 1990.

TOPICS OF INTEREST

Original, basic and applied papers in all areas of Neural Networks & their applications are being solicited. **FULL PAPERS** may be submitted for consideration as oral or poster presentations in (but not limited to) the following sessions:

- *Associative Memory*
- *Electrical Neurocomputer*
- *Image Processing*
- *Invertebrate Neural Networks*
- *Machine Vision*
- *Neurocognition*
- *Neuro-Dynamics*
- *Optical Neurocomputers*
- *Optimization*
- *Robotics*
- *Sensation & Perception*
- *Sensorimotor Control System*
- *Supervised Learning*
- *Unsupervised Learning*
- *Neuro-physiology*
- *Hybrid System (AI, Neural Networks, Fuzzy System)*
- *Mathematical Methods*
- *Applications*

AUTHORS' SCHEDULE

Deadline for submission of FULL PAPERS (Camera ready)	31 May 1991
Notification of acceptance	31 Aug 1991

SUBMISSION GUIDELINES

Eight copies (One original and seven copies) are required for submission. Do not fold or staple the original, camera-ready copy. Papers of no more than 6 pages, including figures, tables, and references, should be written in English and only complete papers will be considered. Papers must be submitted camera-ready on 8 1/2" x 11" white bond paper with 1" margins on all four sides. They should be prepared by typewriter or letter quality printer in one-column format, single spaced or similar type style of 10 points or larger and should be printed on one side of the paper only. FAX submissions are not acceptable. Centred at the top of the first page should be the complete title, author name(s), affiliation(s) and mailing address(es). This is followed by a blank space and then the abstract, up to 15 lines, followed by the text. In an accompanying letter, the following must be included:

<i>Corresponding author:</i>	<i>Presentation preferred:</i>	<i>Technical Session:</i>	<i>Presenter:</i>
Name	Oral	1st Choice	Name
Mailing Address	Poster	2nd Choice	Mailing Address
Telephone & FAX number			Telephone & FAX number
For submissions from Japan send to:	For submissions from USA send to:		For submissions from rest of the world send to:
Professor Toshio Fukuda Programme Chairman IJCNN'91 SINGAPORE Dept of Mechanical Engineering Nagoya University, Furo-cho, Chikusa-Ku Nagoya 464-01 Japan.	Ms Nomi Feldman Meeting Management 5565 Oberlin Drive, Suite 110 San Diego CA 92121. Fax: 619-535-3880		Dr Teck-Seng, Low IJCNN' 91 SINGAPORE Communication Intl Associates Pte Ltd 44/46 Tanjong Pagar Road Singapore 0208

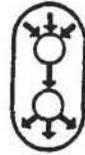
Fax: 81-52-781-9243

Tel: (65) 226-2838

Fax: (65) 226-2877, (65) 221-8916



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

1-30-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I have been directed by the NNC AdCom to approve the appointment of David Rumelhart as the General Chair of the 1991 Seattle IJCNN.

I hereby do so.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', with a large, sweeping flourish at the end.

Robert J. Marks II, President
IEEE Council on Neural Networks

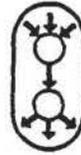
cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Roy Nutter, NNC Meetings Chairman
Laura Jobmann, IEEE Conference Services

Lve



IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-8990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Dr. George Lendaris, Finance Chair
'91 Seattle IJCNN
FAX 503-725-4882

Dear George,

I wanted to quickly follow up on our phone conversation. The Agreement between the INNS and the Council states that

SPEAKERS (EXCEPT FOR TUTORIAL SPEAKERS) ARE NOT COMPENSATED FOR THEIR PRESENTATIONS. PLENARY SPEAKERS WILL NORMALLY HAVE THEIR TRAVEL EXPENSES PAID. IN ADDITION, THE GENERAL CHAIR(S), THE PROGRAM CHAIR(S), AND THE FINANCE CHAIR(S) CAN HAVE THEIR TRAVEL EXPENSES PAID. THE CONFERENCE COMMITTEE WILL SET SPECIFIC ARRANGEMENTS IN ACCORDANCE WITH THE POLICIES OF BOTH INNS AND IEEE. COMPENSATION FOR TUTORIAL SPEAKERS SHALL BE CONSISTENT WITH THE POLICIES OF IEEE AND INNS. INVITED SPEAKERS MAY HAVE THEIR TRAVEL EXPENSES PAID. THE NUMBER OF INVITED SPEAKERS WHO HAVE THEIR EXPENSES PAID SHOULD IN NO CASE EXCEED 1% OF THE BEST ESTIMATE OF THE NUMBER OF CONFERENCE REGISTRATIONS. ALL OTHER EXPENSES REIMBURSEMENTS ARE EXCLUDED UNLESS SPECIFICALLY COVERED BY A LINE ITEM IN THE APPROVED CONFERENCE BUDGET. REGISTRATION FEES FOR KEYNOTE AND PLENARY SPEAKERS ARE WAIVED. REGISTRATION FEES FOR ALL PERSONS WHOSE TRAVEL EXPENSES ARE REIMBURSED BY THE CONFERENCE WILL BE AT THE STUDENT RATE.

As I have informed Dr. Werbos by previous correspondence, the Council has approved a budget with 1250 estimated attendees. Therefore, according to the Agreement, no more than 12 invited speakers can have their way paid. These, and all other expenses must, of course, be included in the budget approved by both the INNS and the IEEE. Note that the Agreement allows for reduction, but not waiving of the registration fee. Deviations from the Agreement can be enacted by joint approval of both the NNC and INNS.

Sincerely,

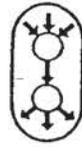
Robert J. Marks II, President
IEEE Council on Neural Networks

cc: David Rumelhart, IJCNN '91 Chair
Paul Werbos, INNS President
Roy Nutter, IOC Chair

TAB 19



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr.
Chair, Meetings Committee

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext-~~28~~ 510
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

June 14, 1991

NNC Meetings Committee Members

Dear Committee Members:

Enclosed are proposals for Neural Networks forums. Please review before our meeting on Sunday, July 7, from 6 to 9:00 pm.

We need to discuss at the meeting as part of our agenda Fuzz-IEEE '92 budget. We also need to discuss the World Congress '94 budget and coordinating officers. If you have further agenda items, please contact me by e-mail or by U.S. Mail.

Sincerely,

A handwritten signature in cursive script that reads "Roy S. Nutter".

Roy S. Nutter, Chair
Meetings Committee

RSN/ksrg
Enc.



**University
of Virginia**

Department of Systems Engineering
Thornton Hall • Charlottesville, Virginia 22903-2442
804-924-5393 • Fax 804-982-2972

*Rec'd 6/3/91
RSN*

May 28, 1991

Prof. Roy S. Nutter
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is a proposal for the Symposium on Combining Genetic Algorithms and Neural Networks. We propose that this symposium be held in conjunction with the IJCNN in Baltimore. Please let me know if you require any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. E. Brown', with a long horizontal flourish extending to the right.

Donald E. Brown
Associate Professor
deb@Virginia.edu

Proposal for a Symposium on Combining Genetic Algorithms and Neural Networks

Submitted by
Donald E. Brown and Russell Eberhart

May 28, 1991

Purpose of the Meeting:

The purpose of the Neural Networks Council is to advance and coordinate work in the field of neural networks conducted throughout the IEEE. Our interest in neural networks is broad in scope and encompasses their relationships to other paradigms for intelligent systems, to include, genetic algorithms. Genetic algorithms draw on analogies to evolution in the same manner that neural networks draw on analogies to biological information processing and both approaches seek to derive systems capable of adapting and responding within complex environments. There is currently burgeoning interest by researchers and practitioners in both fields in the union of neural networks and genetic algorithms. As a means to build upon this work and strengthen the relationship between the two fields we propose that the Neural Networks Council sponsor a workshop on the combination of genetic algorithms and neural networks in conjunction with the IJCNN in Baltimore on June 6, 1992.

Meeting Location: Baltimore Convention Center, Baltimore, Md.

Organizing Committee

Symposium Chair:	David Schaffer, Phillips Labs
Program Chairs:	Darrell Whitley, Colorado State Univ.; David Schaffer, Phillips Labs; and Russell Eberhart, Johns Hopkins
Publications Chair:	Donald Brown, University of Virginia
Finance Chair:	Gil Syswerda, BBN
Local Arrangement:	Russell Eberhart, Johns Hopkins, APL
Publicity Chair:	Donald Brown, University of Virginia

Meeting Management:

Meeting Management, Nomi Feldman, 5665 Oberlin Drive, Suite 110,
San Diego, CA 92121

Budget:

A budget is being prepared for an estimated 100 fully paid registrants and 20 students. We currently expect the following costs:

Meeting site (lunch and two coffee breaks):	\$2500
Publicity:	\$2500
Proceedings:	\$2500
Audio/Visual:	\$500

The income will be from registrations at a planned fee of \$75 for IEEE members (& GA Society Members?), \$85 for nonmembers for early registration and \$85 and \$95 for late registration. Student registration will be \$40 and will not include the lunch but will include the proceedings.

Related Meetings:

The Fourth International Conference on Genetic Algorithms, July 13-16, 1991.

Workshop on Foundations of Genetic Algorithms (being planned for Summer 1992)

Conference on Parallel Problem Solving from Nature (PPSN) (being planned for Summer 1992)

Potential Cooperating Societies

International Society for Genetic Algorithms
IEEE Systems, Man, and Cybernetics
IEEE Computer Society

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 29, 1991

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, WV 26506

Dear Professor Nutter:

Attached is our proposal for the IEEE Neural Networks Council Forum on "Applications of Artificial Neural Network (ANN) Technology to Electromagnetic Inverse Problems and Remote Sensing." Your attention will be appreciated.

Sincerely,



Akira Ishimaru
Professor

AI/nh

Attachment

Proposed
IEEE Neural Networks Council Forum

on

**APPLICATIONS OF ARTIFICIAL NEURAL NETWORK (ANN)
TECHNOLOGY TO ELECTROMAGNETIC INVERSE
PROBLEMS AND REMOTE SENSING**

by

Akira Ishimaru
Leung Tsang
Jenq-Neng Hwang
Thomas A. Seliga
Chi Hou Chan

Department of Electrical Engineering
University of Washington
Seattle, Washington 98105

Submitted to

Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, West Virginia 26506

1. SUMMARY OF THE PROPOSAL

We propose to hold a forum specifically devoted to the application of artificial neural network techniques to electromagnetic inverse problems and remote sensing problems. The forward problem in electromagnetic scattering is the determination of fields and waves given the parameters of the media and it has been studied extensively in the past. The inverse problem is to calculate the target or media parameters from given or measured field data and is more difficult because of the highly nonlinear relations between the fields and media parameters. Also in remote sensing, voluminous amounts of data are collected over a short period of time and it is important to develop efficient and speedy inverse algorithms. It is anticipated that with the use of artificial neural networks (ANN), efficient and speedy algorithms can be developed to solve nonlinear inverse problems in electromagnetics.

The forum on "Applications of Artificial Neural Network (ANN) Technology to Electromagnetic Inverse Problems and Remote Sensing" is proposed to assemble engineers and scientists interested in this problem in order to promote the advancement of the technology, to encourage cross disciplinary exchange between the electromagnetic and ANN communities, and to broaden the scope of ANN and electromagnetic technologies.

At the University of Washington, Professor Robert J. Marks, II is a leading expert on ANN and he is president of the IEEE Council on Neural Networks. Professors Ishimaru, Tsang, Hwang, and Chan are active in ANN applications in electromagnetics and were awarded an NSF grant entitled "Solution of Inverse Problems in Electromagnetic and Optical Propagation Using Artificial Neural Networks" this year. Professor Seliga has employed ANN in his research on microwave remote sensing of precipitation.

2. PLAN

The forum would be held in Seattle in November 1992. Leading experts from the United States and from abroad will be invited to participate. It is expected that approximately 50 people would participate. Selected papers would be published in the Proceedings of the IEEE NNC.

One of the objectives of this forum would be to introduce ANN technology to the electromagnetics community. Therefore, experts in ANN and experts in electromagnetics

will be invited for an exchange of ideas. Tutorial papers by ANN experts will be included in the program to introduce ANN to the electromagnetics experts. It is anticipated that many electromagnetics people will attend the forum to learn ANN for their own applications.

3. BUDGET

IEEE budget form is attached.

4. FORUM ORGANIZING COMMITTEE

Akira Ishimaru	General Chair
Leung Tsang	Finance Chair
Jenq-Neng Hwang	Local Arrangements Chair
Chi Hou Chan	Publicity Chair
Leung Tsang	Technical Program Chair
Robert J. Marks, II	Publications Chair
Thomas A. Seliga	International Liaison Advisor
Jan Kvamme	Engineering Continuing Education

CV's of Ishimaru and Tsang are attached.

5. MANAGEMENT

The forum will be managed by the University of Washington Engineering Continuing Education Program.

6. ENDORSEMENT

Letter from Robert J. Marks II, President, NNC is attached.



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference Applications of Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing
 2. Dates of Conference November 11 - 13, 1992
 3. Location of Conference (full name and address) Seattle, Washington

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report
 5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: _____ Conversion rate: _____ Date of conversion rate: _____

INCOME

	Budget	Interim Report	Final Report
6. Registration Fees	\$ 10,750	\$ _____	\$ _____
7. Conference Publication Sales	0	_____	_____
8. Exhibits	0	_____	_____
9. Social Functions	0	_____	_____
10. All Other Conference Receipts	15,000	_____	_____
11. Total Conference Income	<u>25,750</u>	<u>_____</u>	<u>_____</u>
12. Advance Loans	15,000	_____	_____
13. Total Receipts	<u>\$ 40,750</u>	<u>\$ _____</u>	<u>\$ _____</u>

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ 7552	\$ _____	\$ _____
15. Conference Publications	2000	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	3600	_____	_____
18. Administration	8760	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	<u>21,912</u>	<u>_____</u>	<u>_____</u>
21. Loan Repayments	15,000	_____	_____
22. Total Outlays	<u>\$ 36,912</u>	<u>\$ _____</u>	<u>\$ _____</u>

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 40,750 24. Total Outlays (22) \$ 36,912
 25. Surplus (Loss) - (Item 23 less Item 24) \$ 3838

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. IEEE Neural Networks Council	50	1919
b. University of Washington	50	1919
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		<u>3838</u>

CONFERENCE FINANCIAL INSTITUTION

Name of Bank Engineering Continuing Education, University of Washington
 Address GG-13, Seattle, WA 98195
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name Akira Ishimaru Tel. No. (206) 543-2169
 Address FT-10, University of Washington, Seattle, WA 98195
 Conference Position General Chair

SIGNATURE *Ak Ishimaru* Date 5-29-91

Draft Budget**REVENUE****REGISTRATION FEES**

Member	50 @ 140.00	7,000.00		
Late Member	20 @ 180.00	3,600.00		
Student	5 @ 30.00	150.00	10,750.00	

TUTORIAL REGISTRATION FEES

0 @ 0.00	0.00	0.00		
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EXTRA TICKETS

Special Event	0 @ 0.00	0.00	0.00	
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EXHIBITS

0.00

CONTRIBUTIONS

NSF (tentative)			15,000.00	
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ADVANCE LOANS

0.00

UW Engineering Continuing Educaion			7,500.00	
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IEEE Neural Networks Council			7,500.00	
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GROSS REVENUE**\$40,750.00****LESS INDIRECT REVENUE CHARGES**

Bank Card Service Charge		53.75		
UW Indirect Cost @ 6.5%		656.10	709.85	

NET REVENUE**\$40,040.15****EXPENSES****PROMOTION**

Call for Papers				
Design		100.00		
Printing (15,000)		2,250.00		
Postage		3,610.00		
Mailing Labels		690.00		
Mailing Services		300.00	6,950.00	

Advance Program

Pre-Publication & Printing (500)		250.00		
Postage		251.50	501.50	

Final Program Printing

100.00	100.00		
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Advertising

0.00	0.00	\$7,551.50	
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CONFERENCE PUBLICATIONS

Proceedings				
Pre-publication and printing		2,000.00	2,000.00	\$2,000.00

LOCAL ARRANGEMENTS / FACILITIES

Meeting Room Rental			1,000.00	
Audio Visual Equipment			500.00	
Registration Tables			200.00	
Poster Boards			0.00	
Exhibit Expenses			0.00	
Shuttle Buses			0.00	

Catering

Special Event	0 @	0.00	0.00	
Reception	75 @	20.00	1,500.00	
Coffee Breaks, Refreshments	75 @	10.00	750.00	
Luncheon	75 @	18.00	1,350.00	
VIP Dinner or Meeting			0.00	3,600.00
				\$5,300.00

COMMITTEE EXPENSES

Local Committee Expenses			0.00	
Invited Speaker Travel			0.00	\$0.00

TUTORIALS

Tutorial Expenses			0.00	\$0.00
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MISCELLANEOUS

Conference Materials

Nametags	75 @	1.00	75.00	
Confirmation Packets	75 @	1.00	75.00	
Registration Packets - maps & info.	75 @	2.00	150.00	
Portfolio/Souvenirs	75 @	0.00	0.00	
Tickets/Attendance Roster	75 @	2.00	150.00	450.00

General Office

Postage, Express Mail and Freight			200.00	
Telephone / Telex / Fax			200.00	
Trucking			200.00	
Parking			100.00	
Letterhead & envelopes (customized)			100.00	
Copier Rental / copies			100.00	900.00
				\$1,350.00

CONFERENCE MANAGEMENT

			5,000.00	\$5,000.00
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TOTAL CONFERENCE EXPENSES

				\$21,201.50
--	--	--	--	-------------

LOAN REPAYMENTS

			15,000.00	\$15,000.00
--	--	--	-----------	-------------

BALANCE

				\$3,838.65
--	--	--	--	------------

AKIRA ISHIMARU

BIOGRAPHICAL SKETCH

Akira Ishimaru was born on March 16, 1928 in Fukuoka, Japan: he became a naturalized U.S citizen in 1963. He received the B.S. degree from the University of Tokyo, Japan, in 1951 and the Ph.D. degree from the University of Washington, Seattle, in 1958.

From 1951 to 1952, Dr. Ishimaru was with the Electrotechnical Laboratory, Tanashi, Tokyo. During the summer of 1956, he was employed at Bell Laboratories, Holmdel, New Jersey, working on antenna problems. During 1963-1964, he was a visiting associate professor of electrical engineering at the University of California, Berkeley. He is now a professor of electrical engineering and adjunct professor of applied mathematics at the University of Washington. He is a registered professional engineer in the state of Washington.

Dr. Ishimaru has conducted studies in many areas of antennas and propagation including pattern synthesis, unequally spaced arrays, leaky waves, periodic structures, anisotropic media, and waves in random media. He is the author of *Wave Propagation and Scattering in Random Media* (Academic Press) which was translated into Russian and Chinese and *Electromagnetic Wave Propagation, Radiation, and Scattering* (Prentice-Hall, 1991). He contributed to *Antenna Theory*, edited by R. E. Collin and F. J. Zucker (McGraw-Hill), with "Antenna Pattern Synthesis" (chapter 7), to *Topics in Applied Physics*, vol. 25, *Laser Beam Propagation Through the Atmosphere*, edited by J. W. Strohbehn (Springer-Verlag), and to *Handbook in Applied Meteorology*, edited by D. D. Houghton (John Wiley and Sons), with "Wave Propagation" (chapter 37). Dr. Ishimaru is a principal investigator directing research on wave propagation and scattering, random media, and multiple scattering supported by ONR, ARO, NSF, and NBS.

Dr. Ishimaru has served as a U.S. delegate to general assemblies of URSI and has served on various government panels and committees including NASA Advanced Interplanetary Communication Systems and the National Academy of Sciences Committee on Atmospheric Sciences. He has served as a member of the Committee of Recommendations for U.S. Army Basic Research.

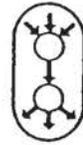
Dr. Ishimaru has served as a Member-at-Large of the U.S. National Committee (USNC) and as chairman (1985-1987) of Commission B of the USNC/International Union of Radio Science (URSI). He served as an Associate Editor of *Radio Science* for six years (1972-1978) and as Editor (1979-1982). He is a Fellow of the Optical Society of America and was an Associate Editor of the *Journal of the Optical Society of America* (1980-1983). He is an Administrative Committee Member of the IEEE Antennas and Propagation Society (1988-1992) and has served as Chairman of the Education Committee and the Awards and Fellows Committee. He is a Fellow of the IEEE and has served as a member of the Editorial Board of the *Proceedings of the IEEE*. He is Editor-in-Chief of the journal, *Waves in Random Media*, Institute of Physics, United Kingdom. Dr. Ishimaru was the recipient of the 1968 IEEE Region VI Achievement Award. He was a Distinguished Lecturer of the IEEE Antennas and Propagation Society for 1976-1977 and an IRMA-RUNYON Distinguished Lecturer of Texas A & M University, 1982. He received the IEEE Centennial Medal in 1984 and the Burlington Northern Faculty Achievement Award for Outstanding Research, College of Engineering, University of Washington in 1990.

LEUNG TSANG
BIOGRAPHICAL SKETCH

Dr. Leung Tsang is presently professor of electrical engineering at the University of Washington, Seattle, Washington. Before joining the University of Washington in 1983, he was a faculty member for three years (1980-1983) with the Electrical Engineering Department of Texas A & M University, College Station, Texas.

Leung Tsang was born in Hong Kong. He became a naturalized U.S. citizen in 1988. He received the B.S. degree (1971), the M.S. degree (1973), and the Ph.D. degree (1976) from the Department of Electrical Engineering and Computer Science of the Massachusetts Institute of Technology, Cambridge, Massachusetts. From 1976 to 1978, he worked as a research engineer at the Schlumberger-Doll Research Center, Ridgefield, Connecticut, conducting research in acoustic and electromagnetic well-logging methods in oil exploration. His current research interests are in microwave remote sensing and wave scattering and propagation in random inhomogeneous media and materials. He is a Fellow of the IEEE, a member of the AGU, the Electromagnetics Academy, the Optical Society of America, Sigma XI, and Commissions B and F of the International Union of Radio Science. He is presently an Associate Editor of *Radio Science*, an Associate Editor of the *IEEE Transactions on Geoscience and Remote Sensing*, and also serves on the editorial board of the *Journal of Electromagnetic Waves and Applications* and the journal *Waves in Random Media*.

Dr. Tsang is coauthor of the book, *Theory of Microwave Remote Sensing*, published by Wiley-Interscience (1985) and is the author and coauthor of over 90 journal articles and 80 conference papers.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

May 31, 1991

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
821 Engineering Science Building
Morgantown, West Virginia 26506

Dear Roy:

I write this letter in support of the proposed "IEEE Neural Networks Council Forum on Applications of Artificial Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing." All Forum proposals must be endorsed by a Neural Networks Council AdCom Member. With this letter, I hereby do so.

The Forum's proposed organizing committee consists of the researchers who pioneered the use of artificial neural networks to inverse scattering problems. Both Professors Ishimaru and Tsang are world renowned experts in the fields of scattering theory and remote sensing. Professor Hwang's work in inversion of artificial neural networks has attracted significant international attention.

Neural networks, interestingly, seem quite well suited to the solution of inverse problems. The reasons are two fold. First, the neural network can either be straightforwardly trained on the inverse physics or on the forward physics and inverted. In the test mode, inversion can be performed quite quickly in comparison to the typically required use of supercomputers. Secondly, a quite large volume of raw data exists from which to train the neural network. Data from remote sensing satellites is massive.

Neural network based solutions to inverse problems has potential use in a number of fields, including controls, robotics, medical imaging and remote sensing.

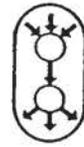
The field is timely and the credentials of the organizing committee are extremely strong. As a member of the AdCom of the IEEE Neural Networks Council, I recommend support of this Forum by the Neural Networks Council without reservation. I will be interfacing with the Forum by serving as Publications Chair.

Sincerely,

A handwritten signature in cursive script that reads "Bob Marks".

Robert J. Marks, President
Neural Networks Council

TAB 20



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Meetings Committee Members,

Ms. Nomi Feldman at Meeting Management recently scouted some sites for future Council Conferences. The results are attached. In order to secure conference sights, the ExCom, at its meeting on 4-22-91, made the following recommendations.

FUZZ-IEEE '93 4/23-29 Hyatt San Francisco

1994 World Congress on Intelligent Systems
FUZZ-IEEE '94 & ICNN '94, back to back
Washington DC, Hilton,
9 days in the period June 16-30 including two weekends.

In addition, I task the Meetings Committee to

- ◆ nominate a Congress Coordinator for 1994.
- ◆ nominate Chairs for the 1994 Conferences.
- ◆ identify the sight for the 1995 World Congress.

A large, stylized handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

Potential Dates & Locations

	<u>San Francisco</u>	<u>Honolulu</u>	<u>Detroit</u>
Hotel -----	HYATT REGENCY	HILTON HAWAIIAN VILLAGE	HYATT REGENCY
Dates -----	4/23-29 2nd Option	4/24-29 1st Option 4/17-23 2nd Option 3/27-4/1 2nd Option	4/24-29 1st Option
Room Rates ---	Single - \$135 Double - \$155	Single - \$150-220 Double - \$150-220	Single - \$120 Double - \$120
	*****	*****	*****
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON WAIKIKI	WESTIN
Dates -----	<i>not available</i> 5/8-14 2nd Option	3/27-4/1 1st Option	4/24-29 1st Option 3/27-4/1 1st Option
Room Rates ---	Single - \$155 Double - \$175	Single - \$175 Double - \$175	Single - \$89 Double - \$99
	*****	*****	*****
Hotel -----	WESTIN ST.FRANCIS		
Dates -----	4/17-23 1st Option		
Room Rates ---	Single - \$109 Double - \$170 (deluxe)		

Hotel -----	SAN FRANCISCO HILTON		
Dates -----	4/24-29 1st Option		
Room Rates ---	Single - \$140-\$165 Double - \$155-\$175		

*Quoted room rates are 1991 rates

To: Bobb Marks
(206) 543-3842

4/1/91

WORLD INTELLIGENCE 1994
Potential Dates & Locations

	<u>San Francisco</u>	<u>San Diego</u>	<u>Washington DC</u>
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON HARBOR ISLAND	THE WASHINGTON HILTON
Dates -----	<i>not</i> 7/29-8/10 ^{available} 2nd Option 8/23-9/4 2nd Option 8/30-9/10 2nd Option	6/5-15 1st Option 8/7-17 1st Option 8/27-9/6 1st Option <i>not available</i> 6/11-21 2nd Option 7/9-19 2nd Option 7/16-26 2nd Option	6/16-30 1st Option 7/1-7 1st Option 6/9-21 2nd Option 7/8-15 2nd Option 8/1-13 2nd Option
Room Rates ----	Single - \$150 Double - \$170 *****	Single - \$90 Double - \$105 *****	Single - \$130-\$150 (June) \$ 90-\$111 (July) \$ 85-\$105 (Aug.) Double - \$150-\$170 (June) \$110-\$130 (July) \$105-\$125 (Aug.) *****
Hotel -----	HYATT REGENCY	TOWN & COUNTRY RESORT	SHERATON WASHINGTON
Dates -----	6/1-13 2nd Option 6/10-22 2nd Option 8/13-31 2nd Option	7/5-20 1st Option 6/19-30 2nd Option	7/13-21 2nd Option 8/17-25 2nd Option
Room Rates ----	Single - \$135 Double - \$155 *****	Single - \$78-104 Double - \$88-114 *****	Single - \$145-\$165 Double - \$170-\$190 *****

*Quoted room rates are 1991 rates

To: Bob Marks
 (206) 543-3842

4/11/91

TAB 21

March 13, 1991

IEEE Conference Series
445 Hoes Lane
Piscataway, NJ 08855-1331

Dear Sirs,

Herewith I am sending you by Federal Express the following items regarding Fuzz-IEEE, The First International Conference on Fuzzy Systems, sponsored by the IEEE Neural Networks Council, to be held in San Diego, CA on March 8-12, 1992.

1. IEEE Conference Information Schedule
2. Detailed Financial Report Parts I (Income) and II (Expenses) : Budget
3. Summary Financial Report : Budget
4. Conference Insurance Request

Please process this material as expeditiously as possible.

With many thanks.

Sincerely yours,

James C. Bezdek 3/13/91

James C. Bezdek
Nystul Professor of Computer Science, and Chair
FUZZ-IEEE : The International Conference on Fuzzy Systems

Copies to: Robert Marks, Pat Simpson, Don Kraft, Didier Dubois, Naomi Feldman



**IEEE CONFERENCE INFORMATION SERVICE
IEEE CONFERENCE INFORMATION SERVICE**

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference INTERNATIONAL FUZZY SYSTEMS CONFERENCE (FUZZ-IEEE)
 2. Dates of Conference _____
 3. Location of Conference (Full name and address) TOWN & COUNTRY HOTEL
500 HOTEL CIRCLE NORTH SAN DIEGO, CA 92101
 4. Estimated Attendance 000
 5. Exhibits Yes No
 6. Will there be a Conference publication? Yes No If yes, check one box below:
 Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE Neural Networks Council</u>	%	<u>100</u>
Entity	_____	%	_____
Entity	_____	%	_____
Entity	_____	%	_____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
Entity <u>IEEE INDUSTRIAL ELECTRONICS SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>IEEE COMMUNICATIONS SOCIETY</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>INTERNATIONAL FUZZY SYSTEMS ASSOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Entity <u>NORTH AMERICAN FUZZY INF. PROC. SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
 If yes, who was contacted? JIM BUSSERT San Diego Section
Name Section

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN JAMES C. BEZDEK Tel. No. (904) 474-2784
 Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514

INFORMATION CONTACT Meeting Management N. Feldman Tel. No. (619) 453-6222
 Address 5665 Oberlin Drive, Ste 110, San Diego, CA 92121

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:

Name JAMES C. BEZDEK Tel. No. (904) 474-2784
 Address Computer Science U. of W. Florida, Pensacola, FL 32514
 Conference Position General Chairman

SIGNATURE James C. Bezdek Date 3/8/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

General Chair

Jim Bezdek
Computer Science
Univ. of W. Florida
Pensacola, FL 32514
tel. (904) 474-2784
fax (904) 474-3023
jbezdek@uwf.bitnet

Dr. Richard Tong
Advanced Decision Systems
1500 Plymouth Road
Mountain View, CA 94043

Dr. Piero Bonissone
General Electric CR & D
1 River Road : KI-5C32A
Schenectady, NY 12301

Honorary Chair

Lotfi Zadeh
EE Dept.
Univ. of California
Berkeley, CA 94720
(415) 642-4959

Publicity Committee

Prof. Fred Petry
Computer Science Department
Tulane University
New Orleans, LA 70118

Prof. James Keller
Electrical and Computer Engr.
University of Missouri
Columbia, MO 65211
314 - 882-7339
ecekeker @ umc.vmb.bitnet

Program Committee Co-Chairs

D. Dubois/H. Prade
Langages et Sys. Informatiques
Universite Paul Sabatier
118 Route de Narbonne
31062 Toulouse Cedex, FRANCE

Exhibits Committee

Dr. Masaki Togai
Togai Infralogic Inc.
30 Corporate Park, Suite 315
Irvine, CA 92714

Finance Committee

Prof. Don Kraft
Computer Science Dept
LSU
Baton Rouge, LA 70803
504-388-1331

Professor T. Yamakawa
Computer Science Department
Kyushu Institute of Technology
Iizuka, Fukuoka 820, JAPAN

Pat Simpson
Electronics Div.
General Dynamics
17436 Ashburton Road
San Diego, CA 92128
tel. (619) 573-2417
fax (619) 573-7400

Prof. Hans Zimmermann
Operations Research
Aachen Institute of Technology
Templergraben 64
5100 Aachen, FRG

Tutorial Committee

Dr. Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025
(415) 859-2314
RUSPINI@AI.SRI.COM

Advisory Board

Prof. George Klir
Department of Systems Science
SUNY
Binghamton, NY 13901

Prof. Elie Sanchez
Faculte de Medecine
Universite Aix-Marseille II
27, Blvd Jean-Moulin
13385 Marseille Cedex 5, France

Dr. P. H. Smets
University Libre de Bruxelles
IRIDIA
avenue F. Roosevelt 50. CP 194/96
B-1050 Brussels, BELGIUM

Prof. Michio Sugeno
Systems Science Department
Tokyo Institute of Technology
4259 Nagatsuta, Midori-Ku
Yokohama, 227, JAPAN

Prof. Toshiro Terano
Hosei University
3-7-2 Kajino-Cho
Koganei, Tokyo 184, JAPAN

Dr. Ronald Yager
Machine Intelligence Institute
Iona College
New Rochelle, NY 10801

Administration

Nomi Feldman, FUZZ-IEEE
Meeting Management
5665 Oberlin Dr., Ste 110
San Diego, CA 92121
(619) 453-6222



This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)
Dates of Conference MARCH 8-12, 1992

- SEE ATTACHED SHEET -

INCOME

REGISTRATION FEES

	Quantity	Fee	=	Budget	Interim Report	Final Report
In Advance - Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x	_____	=	_____	_____	_____
In Advance - Reduced Rate	_____ x	_____	=	_____	_____	_____
At Conference - Members	_____ x	_____	=	_____	_____	_____
At Conference - Nonmembers	_____ x	_____	=	_____	_____	_____
At Conference - Reduced Rate	_____ x	_____	=	_____	_____	_____
Total Registrants		Total		\$ _____	\$ _____	\$ _____

CONFERENCE PUBLICATION SALES

To Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x	_____	=	_____	_____	_____
To IEEE Hq.	_____ x	_____	=	_____	_____	_____
Total Copies		Total		\$ _____	\$ _____	\$ _____

EXHIBITS

Tables	_____ x	_____	=	\$ _____	\$ _____	\$ _____
Booths	_____ x	_____	=	_____	_____	_____
Booths	_____ x	_____	=	_____	_____	_____
	_____ x	_____	=	_____	_____	_____
		Total		\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS

(Itemize by event on separate sheets.)

Total	\$ _____	\$ _____	\$ _____
--------------	-----------------	-----------------	-----------------

ALL OTHER (List here or attach details.)

_____	\$ _____	\$ _____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL INCOME	\$ <u>411,750</u>	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE FINANCIAL REPORT

PART I: INCOME

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Qua.	Fee	Budget	Inter Rpt	Fin Rpt
REGISTRATION FEES					
Members					
Memb. before 11/2/91	100	195.00	19,500.00		
Memb. before 1/31/92	100	295.00	29,500.00		
Memb. at conf.	200	390.00	78,000.00		
Non-Members					
Non-memb. before 11/2/91	50	295.00	14,750.00		
Non-memb. before 1/31/92	25	395.00	9,875.00		
Non-memb. at conf.	25	490.00	12,250.00		
Students					
Before 11/2/91	25	50.00	1,250.00		
Before 1/31/92	25	75.00	1,875.00		
Students at conf.	50	95.00	4,750.00		
Total registrants	600	Total	171,750.00		
CONFERENCE PUBLICATION SALES					
To members	25	50.00	1,250.00		
To non-members	25	100.00	2,500.00		
To IEEE headquarters	450	25.00	11,250.00		
Total Copies	500	Total	15,000.00		
EXHIBITS					
Booths/Publishers	5	650.00	3,250.00		
Booths/All Others	25	950.00	23,750.00		
Total			27,000.00		
SOCIAL FUNCTIONS					
.....			\$0.00		
Total			\$0.00		
ALL OTHER					
Tutorial, one only	60	200.00	12,000.00		
Tutorial, two	200	300.00	60,000.00		
Seed Money Advance	1		30,000.00		
Total			102,000.00		
TOTAL INCOME			315,750.00		



IEEE CONFERENCE DETAILED FINANCIAL REPORT (EXPENSE)

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)

Dates of Conference _____

PROMOTION

	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____

SEE ATTACHED SHEET

CONFERENCE PUBLICATION

Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____

EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)

Total	\$ _____	\$ _____	\$ _____
--------------	-----------------	-----------------	-----------------

SOCIAL FUNCTIONS

(Itemize event on separate sheets.) Total	\$ _____	\$ _____	\$ _____
--	-----------------	-----------------	-----------------

ADMINISTRATION

Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____

ALL OTHER

Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ <u>252,000</u>	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: _____

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name James C. Bezdek Tel. No. (904) 474-2784
Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514
Conference Position _____

SIGNATURE James C. Bezdek Date 3/15/91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

 IEEE FINANCIAL REPORT

PART II: EXPENSES

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
PROMOTION			
Flyer/prod & printing	15,000.00		
Program/prod & printing	5,000.00		
Mailing lists and labels	5,000.00		
Postage	21,000.00		
Mailing house	5,000.00		
Advertising	15,000.00		
Other/Souvenir Items	5,000.00		
Total promotion	71,000.00		
CONFERENCE PUBLICATON			
Conf. record/digest printing	50,000.00		
Comm w. auth & sess chairs	2,500.00		
Total conf. publication	52,500.00		
EXHIBITS			
Signage	1,500.00		
Brochure	1,000.00		
Furniture	2,500.00		
Comm w Exhibitors	1,000.00		
Total exhibits	6,000.00		
SOCIAL FUNCTIONS	45,000.00		
ADMINISTRATION			
Insurance and bonding	100.00		
Security and guard service	2,000.00		
Audio-video rental and op.	1,500.00		
Management Fee (sliding scale)	25,000.00		
Office equipment rental	1,000.00		
Pr. forms tickets, sta., etc.	1,250.00		
Posters, signs, badges, etc.	1,250.00		
Telephone, FAX, copying	1,000.00		
Registration clerical help	10,000.00		
Registration supplies	400.00		
Total Administration	43,500.00		
ALL OTHER			
Tutorials/Signage	1,500.00		
Tutorials/Notebooks	2,500.00		
Tutorials/Audio-Visual	1,000.00		
Tutorials/Honoraria	18,000.00		
Audit	3,000.00		
Invited Speakers/Honoraria	8,000.00		
Total Other	34,000.00		
TOTAL CONFERENCE EXPENSES	252,000.00		
LOAN REPAYMENT	30,000.00		
TOTAL OUTLAYS	282,000.00		



SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference INTERNATIONAL FUZZY SYSTEMS CONFERENCE (FUZZ-IEEE)
 2. Dates of Conference MARCH 8-12, 1992
 3. Location of Conference (full name and address) Town & Country Hotel, 500 Hotel Circle N., San Diego, CA 92108

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:

- Budget Interim Report Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: _____ Conversion rate: _____ Date of conversion rate: _____

INCOME

SEE ATTACHED SHEET

	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	_____	_____	_____
13. Total Receipts	\$ _____	\$ _____	\$ _____

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ _____	\$ _____	\$ _____
15. Conference Publications	_____	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	_____	_____	_____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 315,750 24. Total Outlays (22) \$ 282,000
 25. Surplus (Loss) - (Item 23 less Item 24) \$ 33,750

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. <u>IEEE Neural Networks Council</u>	<u>100</u>	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank Point Loma Federal Credit Union, Sports Arena Branch # 01
 Address 3777 Sports Arena Blvd., San Diego, CA 92110
 Conference Account Title FUZZ-IEEE 1992 Account No. 080401743
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name James C. Bezdek Tel. No. (904) 474-2784
 Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514
 Conference Position General Chair

SIGNATURE James C. Bezdek Date 3/15/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE FINANCIAL REPORT

PART III: SUMMARY

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
INCOME			
6. Registration fees	171,750.00		
7. Conf. publication sales	15,000.00		
8. Exhibits	27,000.00		
9. Social Functions			
10. All other conf. receipts (tutorials)	72,000.00		
11. Total conference income	285,750.00		
12. Advance loans	30,000.00		
13. Total receipts	315,750.00		
EXPENSE			
14. Promotion	71,000.00		
15. Conference publications	52,500.00		
16. Exhibits	6,000.00		
17. Social functions	45,000.00		
18. Administration	43,500.00		
19. All other conf. expenses	34,000.00		
20. Total conference expenses	252,000.00		
21. Loan repayments	30,000.00		
22. Total outlays	282,000.00		
SURPLUS (LOSS)			
23. Total receipts	315,750.00		
24. Total outlays	282,000.00		
25. Surplus (loss)	33,750.00		



REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name International Fuzzy Systems Conference

Conference Dates March 8-12, 1992

Conference Hotel or Center Town and Country Hotel, 500 Hotel Circle N.,

Conference Location (City, State & Zip Code) San Diego, CA 92108

CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)
If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)
If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000
A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)
Note: There will be an approximate \$100 charge billed directly to the conference.

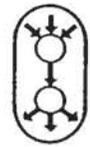
CONFERENCE WILL CHARTER: Bus Other (explain) _____
See special note regarding transportation rental.

CERTIFICATE OF INSURANCE
You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.
Name James C. BEZDEK
Conference Title General Chairman
Address Div. of Computer Science
Univ. of West Florida
Pensacola, FL 32514
Phone No. (904) 474-2784
Signature James C. Bezdek
Date 3/5/91

FOR OFFICIAL USE ONLY			
CONF DATE	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Mo.	Date	Yr.
Date Rec'd	_____		
Date Ack	_____		
Off&Ctm List	_____		
Charter Cert	_____		
<input type="checkbox"/> IN & OUT ROBBERY	_____		
- A&A Inv. Req.	_____		
- Inv. to Conf.	_____		
- Check to A&A	_____		
<input type="checkbox"/> INSURANCE CLAIM	_____		
<input type="checkbox"/> FILE COMPLETE	_____		

TAB 22



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Meetings Committee Members,

Ichiro Masaki, Chair of *Intelligent Vehicles '92*, and Robert Begun, President of the *IEEE Industrial Electronics Society*, have invited our Council to Cooperate in the *Intelligent Vehicles '92 Conference*. The *IEEE Industrial Electronics Society* is a Cooperating Society in FUZZ-IEEE.

It is appropriate that the Meetings Committee consider this invitation and make any motions they feel appropriate to AdCom.

A handwritten signature in black ink, appearing to read "R. Marks II".

Robert J. Marks II, President
IEEE Neural Networks Council

CALL FOR PAPERS

Intelligent Vehicles '92

July 1 and 2, 1992, Suburbs of Detroit, USA

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: ?

The IEEE/IES Intelligent Vehicle Subcommittee is organizing international meetings once every year. In 1991, for example, an international meeting was held on "Fuzzy and Neural Systems, and Vehicle Applications" in Tokyo. The meeting in 1990 was on "Vision-Based Vehicle Guidance". This year we are planning to have multiple sessions. We will consider publishing a book, in addition to proceedings, by selecting good papers presented in the special session as is the traditional of this workshop.

Topics: **Communication for Intelligent Vehicles (Special Session)**
 Real-Time Traffic Control
 Navigation
 Sensing for Intelligent Vehicles
 Collision Avoidance
 Road Following
 Control for Intelligent Vehicles
 Fuzzy Logic
 Neural Nets
 Intelligent Power Train Controller

Deadlines: December 1, 1991 for one-page abstracts
 February 1, 1992 for acceptance notices
 April 1, 1992 for camera-ready papers

Please send your business card (or a card with your address, phone, fax, and e-mail) together with the following reply to

Ichiro Masaki, Computer Science Department
General Motors Research Laboratories,
30500 Mound Road, Warren, Michigan, 48090-9055, USA
Phone: (USA) 313-986-1466, FAX: (USA) 313-986-9356
CSNET:MASAKI@GMR.COM

Reply for Intelligent vehicles '92:

- A proposal for a special session is enclosed.
- I intend to submit a paper.
- I am interested in attending the meeting.
- Put my name on the mailing list.

Fuzzy and Neural Systems, and Vehicle Applications '91

November 8 and 9, 1991, Tokyo, Japan

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: IEEE Industrial Electronics Society
Japan Society for Fuzzy Theory and Systems
Society of Instrument and Control Engineers
Robotics Society of Japan

The International Roundtable Discussion on "Fuzzy and Neural Systems, and Vehicle Applications" is scheduled for November 8 and 9, 1991 at the University of Tokyo.

This meeting will focus on applications of fuzzy and neural systems to vehicles. Informal communication among attendees is encouraged through a single session format. The presentations include research projects at major car manufacturers in addition to world leading academic groups in the field of fuzzy and neural systems as listed in the preliminary program.

Preliminary Program

Session chairs include:

S. Amari (U of Tokyo)	C.G. Atkeson (MIT)
F. Harashima (U of Tokyo)	K. Hirota (Hosei U.)
E.H. Ruspini (SRI)	C. Koch (Cal. Tech. of Inst.)
M. Sugeno (Tokyo Inst. Tech.)	M. Togai (Togai I. L.)
L.A. Zadeh (U of California)	

Friday, November 8, 1991 (10am - 6pm)

1. T. Mingers, S. Routleh, A. Tittel; MIRGAS, INS, Siemens; France
Application of Fuzzy Control to the Design of a Car Suspension
2. Y. Uyeda; Omron; Japan
Improvement of Chassis Control by a fuzzy Controller
3. K.A. Marko, J.V. James, R.J. Hampo; Ford; USA
Vehicle Applications of Artificial Neural Systems: Diagnostics and Control
4. M. Lee; U of Gent; Belgium
Automatic Analysis and Diagnosis of Automobiles Using Neural Networks
5. H. Takahashi; Nissan; Japan
A Method for Predicting the Driving Environment Using Fuzzy Reasoning
6. M. J. Patyra; Carnegie Mellon U; USA
Implementation of Fuzzy Operations with Neural Networks
7. C. W. de Silva; U of British Columbia; Canada
A Generalized Fuzzy Control Hierarchy
8. P. A. Ligomenides, L.B. Jump, Y-S Chlou; U of Maryland, Casium Res Corp; USA
A Reconfigurable Ring Architecture for Large Scale Neural Networks
9. P. Baschore, J.T. Yestrebsky; Neuralogix; USA
Innovative Architectural and Theoretical Considerations Yield Efficient Fuzzy Logic Controller VLSI Design
10. C. G. Atkeson; MIT; USA
Memory-Based Learning of a Nonlinear Vehicle Model

11. L.A. Feldkamp, G.V. Puskorius, L.I. Davis, F. Yuan; Ford; USA
Decoupled Kalman Training of Neural Controllers for Automotive Systems
 12. J-S R. Jang; U of California; USA
A Self-Learning Fuzzy Controller with Applications to Tracking and Parking Problems
 13. Y. Hashimoto, T. Shigematsu, K. Ohnishi, N. Ohta; Toyota; Japan
Application of a Self-Tuning Fuzzy Algorithm to an Automatic Steering Control
 14. T. Hesaburg, M. Tomizuka; U of California; USA
A Fuzzy Rule Based Controller for Automotive Vehicle Guidance
 15. T. Suzuki, K. Aoki, T. Inoue, H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Real-Time Adaptive Control of Vehicle Speed, using Neural Networks applied to Electronically Controlled Braking Systems
 16. Aurrand-Lions, L. Fournier, P. Jarri, M. de Saint Blancard, E. Sanchez; U of Aix-Marseille II, Peugeot; France
Application of Fuzzy Control for ABS vehicle braking
 17. H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Tracking Control for an Autonomous Mobile Robot by Neural Networks
 18. E. H. Ruspini, D.C. Ruspini; SRI International, NASA; USA
Autonomous Vehicle Motion Planning Using Fuzzy Logic
 19. L. Huang, W. Kao, H. Oshizawa; ZEXEL; USA
A fuzzy Map-Matching Algorithm for Automotive Navigation Systems
- Saturday, November 9, 1991 (10am - 8pm, including banquet)

1. T. Hrycej, Daimler-Benz, Germany
Model-Based Learning of a Neural Spacecraft Attitude Controller
2. S. Chiu, S. Chand; Rockwell International; USA
Fuzzy Controller Design and Stability Analysis for Roll Maneuver of an Aircraft Model
3. R.N. Lea, Y. Jani, M.G. Murphy, M. Togai; NASA, LinCom, U of Houston, TIL; USA
Design and Performance of a Fuzzy Logic Based Vehicle Controller for Autonomous Collision Avoidance
4. C. Koch; California Institute of Technology; USA
Real-Time Computer Vision and Robotics Using Analog VLSI Circuits
5. R. Fujitaka; Omron; Japan
An Anticollision System Concept
6. G.S. Pingali, R. Jain; U of Michigan; USA
A Highly Parallel Architecture for Extraction of Road Boundaries for Autonomous Vehicle Guidance
7. T. Hanamoto, A. Sugiyama, T. Takatsu, M. Nakajima, Takahashi; Komatsu, Ministry of Construction; Japan
An Operation Assistance System in Small-Bore Pipe-Jacking
8. E. C. Yeh, J.C. Bin; National Tsing Hua University; Taiwan
Fuzzy Control for Self-Steering of a Sailboat
9. A. Takayama, A. Hirako; Isuzu; Japan
Adaptive Cruise Control According to Optimal Distance
10. K.P. Venugopal, A.S. Pandya, R. Sudhakar; Florida Atlantic U; USA
An Adaptive Control System for Autonomous Underwater Vehicles
11. L.A. Zadeh; U of California; USA
Fuzzy Logic - Today and Tomorrow
12. I. Sakai, M. Togai, S. Sakaguchi, T. Haga; Honda, TIL; Japan
Shift Scheduling Method for Automatic Transmission Vehicles Using Fuzzy Logic

- 13. Y. Dote, H. Hayashi, A. Takayama, A. Hirako; *Muroran Institute of Tech., Isuzu; Japan*
Neural Fuzzy Transmission Control for Automobiles
- 14. B.S. Widmann, G.R. Widmann; *GM-Hughes; USA*
Implementation of Object Oriented Constructs for Use in Fuzzy Logic Classifiers
- 15. N. Ikeya; *IHI; Japan*
Variable Geometry Turbocharger for Automobile Engines with Fuzzy Controls
- 16. M. Abate; *Flat; Italy*
An Application of Fuzzy Logic to Engine Control
- 17. Round Table Discussion

Banquet

(The preliminary program may be changed without advance notice.)

***** Organizing Committee *****

General Chair: I. Masaki (General Motors)
Local Chairs: T. Fukuda (U of Nagoya)
H. Hashimoto (U of Tokyo)

S. Amari (U of Tokyo)	J. C. Bezdek (U of W Florida)
F. Harashima (U of Tokyo)	R. Hecht-Nielsen (HNN)
C. Koch (Cal Tech)	B. Kosko (S. California U)
M. Sugeno (Tokyo Inst of Tech)	T. Terano (LIFE)
M. Togai (Togai I. L.)	L. A. Zadeh (U of California)

A. Hosaka (Nissan)	J. Bernasch (BMW)
L. A. Feldkamp (Ford)	A. Hirako (Isuzu)
T. Inoue (Toyota)	T.B.D. (Honda)
K. A. Marko (Ford)	W. Mellis (Daimler-Benz)
H. Metzler (Daimler-Benz)	A. Okuno (Mazda)
M. de Saint Blancard (Peugeot)	

H. Akatsuka (NipponDenso)	M. Aoki (Matsushita)
H. R. Berenji (NASA)	B. Bosacchi (AT&T)
J. P. Crutchfield (U of California)	R. Eckmiller (U of Dusseldorf)
K. Fukushima (U of Osaka)	S. Grossberg (Boston U)
G. Heesa (Bosch)	K. Hirota (Hosei U)
H. Inoue (U of Tokyo)	R. Jain (U of Michigan)
T. Kanade (Carnegie Mellon U)	A. Kato (Komatsu)
S. Y. Kung (Princeton U)	R. N. Lea (NASA)
C. Lee (U of California)	P. A. Ligomenides (U of Maryland)
K. Matsumoto (Hitachi)	M. Ohyagi (Omron)
M. J. Patyra (Carnegie Mellon U)	W. Pedrycz (U of Manitoba)
W. Przytula (Hughes)	E. H. Ruspini (SRI)
C. W. de Silva (U of British Columbia)	T. B. Sheridan (MIT)
Y. Shirai (U of Osaka)	N. Singh (U of Windsor)
A. Takahashi (Waseda U)	M. Tomizuka (U of California)
S. Tsuji (U of Osaka)	J. Yen (Texas A&M U)
M. Yoshida (Fujiitsu)	N. Yubasaki (Mycom)
S. Yufa (Tsukuba U)	

Related conferences include:
 IECON (International Conference on Industrial Electronics), Oct.28 - Nov.1 in Japan
 H. Haneda FAX: 81-3-3814-4699
 IROS (International Workshop on Intelligent Robots and Systems), Nov. 3-5, 1991
 in Japan F. Miyazaki FAX: 81-6-843-9730
 IFES (International Fuzzy Engineering Symposium), Nov. 13-15, Japan
 Secretariat for IFES FAX: 81-45-212-8256

For travel arrangements, please contact
 Mr. Masafumi Murase, Japan Travel Bureau, New York Office, USA
 Fax: (USA) 212-586-9686, Phone: (USA) 212-246-8030
 For example, discount roundtrip airfare between Detroit and Tokyo is \$1,090.

The meeting will be held at the Institute of Industrial Science at the University of Tokyo. The Institute is not located on the main campus. The address is 7-22-1 Roppongi, Minato-ku, Tokyo.

***** Registration Information *****

Registration Fee: Before September 20 280 U.S.Dollars (39,000 Japanese Yen)
 Late registration 310 U.S.Dollars (43,000 Japanese Yen)

Please send (1) attached registration form including credit card information or check. Only checks from U.S. banks are acceptable. Make the check payable to Intelligent Systems Society.
 (2) a business card (or a card with your address, phone, and fax.)

to Ichiro Masaki
 Computer Science Department, General Motors Research Laboratories
 30500 Warren, Michigan, 48090-9055, USA
 Fax: (USA) 313-986-9356, Phone: (USA) 313-986-1466,
 CSNET:MASAKI@GMR.COM

Residents of Japan may send the attached registration form along with a business card to the local chair and transfer the registration fee to the local bank as described below. Please write your name both in English and Japanese.

申込先は 橋本秀紀, 東京大学生産技術研究所第三部, 〒108 東京都港区六本木7-22-1, 電話 03-3402-6231, FAX 03-3423-1484.
 参加料は東京銀行内にある「エヌビーディー バンク口座」経由で, エヌビーディーバンク内の「インテリジェント システムズ ソサイアティ 口座」に振り込んでください。東京銀行丸ノ内支店における「エヌビーディー バンク」の口座番号は「当座 00156936」で, エヌビーディー バンク東京支店における「インテリジェント システムズ ソサイアティ」の口座番号は「当座 20850-0002」です。御質問はエヌビーディーバンク (03-3214-7304) まで。

----- cut -----
Registration Form

Name: _____
 Fax: (Country: _____) _____
 Phone:(Country: _____) _____

Please attach your business card for your mailing address.

Registration Fee (Mark one)
 280 U.S. Dollar 310 U.S. Dollar 39,000 Yen 43,000 Yen

Payment (Mark one)
 Credit Card AMEX VISA Master Diners

Card Number: _____ Exp: _____/_____/_____

Check (payable to Intelligent Systems Society)
 Only checks from U.S. banks are acceptable.
 Bank Transfer (For Japanese residents only)

TAB 23

Robert J. Marks II Library Archive
NEUROCYBERNETICS RESEARCH INSTITUTE
ROSTOV STATE UNIVERSITY

194/1 Stachka Ave, Rostov-on-Don 344104, USSR
 phone: (8632)280577 telex: 123228 TEMR fax: (8632)244311

Professor Robert J. Marks II
 President
 IEEE Neural Network Council
 University of Washington
 Department of Electrical Engineering
 Seattle, WA 98195
 USA

March 28, 1991

Dear Professor R.J. Marks,

I appeal to you by recommendation of Prof. Robert Hecht-Nielsen. Two words about myself. I am working in Neurocomputing since 1962. A short synopsis of my work in the field (to a pity - in Russian !) is enclosed. Some of them are in international editions.

Now I am a director of Neurocybernetics Research Institute of the Rostov State University and President of a Provisional Committee of Russian Neural Network Society. The Inauguration Congress of the latter will be held in Moscow in April, 1991. The Institute is the only professional institution in the field of Neurocomputing in the USSR (established by Prof. A.B.Kogan in 1972) and surely possesses a substantial share of all Russian neural network workers.

Prof. R.Hecht-Nielsen advised me to organize in Rostov a small conference on neural networks in 1992 (30-th anniversary of our Institute) and a larger one in Moscow in 1995.

According to these advices I appeal to you with the following (multiple-!) applications. All of them are indeed valid in a case you would be inclined to begin a cooperation with us. Our suggestions and applications follow below in some natural order.

1. Name of the meeting:

1992 IEEE Rostov-on-Don International Symposium on
 Neuroinformatics and Neurocomputers.

2. Purpose of the Symposium:

Communication of new neural network research results with emphasis on the Eastern European region.

3. Anticipated Attendance:

200 from the USSR and 100 from other countries.

4. Should you agree to cooperate with us, we see the following your actions be necessary in order to be able to have the meeting:

* Official letter, offering IEEE cooperation/participation for this meeting (we need this letter quickly so that we can secure necessary preparations at local authorities and Government levels).

- * Insertion of the following announcement in all major IEEE publications (Spectrum magazine, IEEE Proceedings, IEEE Transactions on Neural Networks, etc.):

1992 IEEE Rostov-on-Don International Symposium on
Neuroinformatics and Neurocomputers, Rostov-on-Don, USSR,
4-6 October, 1992

six-page camera-ready papers on 8.5" x 11" sheets with 1" margins
must be submitted no later than 24 December 1991

Contact:

Professor Witali L. Dunin-Barkowski
Director
Neurocybernetics Research Institute
Rostov State University
194/1 Stachka Ave
Rostov-on-Don 344104
USSR

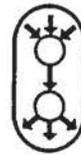
- * Supply at least two IEEE Neural Network Council advisors to assist with organization of the meeting and with the on-site running of the meeting in October, 1992.
- * Arrange for after-symposium sale of the symposium proceeding, which will be printed by Rostov State University (using IEEE guidelines and format - please, supply these!) with 100 extra copies to be delivered to the IEEE Press for after-symposium sales.
- * Publication of a full-page call for papers in the IEEE Transactions on Neural Network once each during the Summer and Autumn of 1991. We will supply a camera-ready copy at the call for papers by 1 May 1991.

Please, let us know if our appeal is suitable for you. Me and my colleagues are waiting impatiently for your reply.

Sincerely yours,



Witali L. Dunin-Barkowski
Professor, Director of Neurocybernetics
Research Institute



COUNCIL ON NEURAL NETWORKS

Robert J. Marks II
President

5-25-91

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104, USSR
(8632) 280577, telex: 123228 TEMR
FAX (8632) 244311

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dear Dr. Dunin-Barkowski,

Thank you for your telephone call. The *IEEE Neural Networks Council* (NNC) is excited about involvement with the newly formed *Russian Neural Network Society*.

The NNC will be hosting a President's Dinner at the Seattle IJCNN on Tuesday, July 9, 1991. The Presidents of other neural network societies will also be in attendance. I invite you to attend. If you do not have the funds to attend, I have been authorized by the NNC Executive Committee to offer our assistance with a portion of your travel expenses. I will send you a FAX with more details within a week.

I am sorry that the NNC cannot participate in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* as proposed. There are two reasons. First, we are co-sponsoring the *International Joint Conference on Neural Networks* in Beijing on November 3-6, 1992. The conference is co-sponsored with the *International Neural Networks Society* (INNS). Our agreement with the INNS does not allow us to participate in another neural networks conference within 30 days (before or after) the Beijing conference. Your proposed dates of 4-6 October, 1992 are within this 30 day period. Nevertheless, the NNC will gladly list your conference in our newsletter which is distributed to over 8000 subscribers.

The NNC can be a participating society in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* under the following conditions*:

- ◆ The conference is scheduled to end on or before October 3, 1992.
- ◆ The estimated attendance at the conference is not more than 400.
- ◆ The local IEEE Section participates in the conference.
- ◆ The participation is approved by the NNC Administrative Committee.

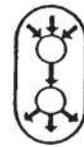
Whether the NNC participates or not, I wish you a highly successful conference.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Roy Nutter, NNC Meetings Chair
Laura Jobmann, IEEE

Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE

* The first two conditions are imposed on us by our agreement with the INNS.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-28-91

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104
USSR
(8632) 280577, telex: 123228 TEMR, FAX (8632) 244311

Dear Dr. Barkowski,

I write in response to your recent correspondence.
The President of and *IEEE Moscow Section* (and the *Popov Society*) is:

Academician Yuri V. Gulyaev
President, A.S. Popov Society
Director, Institute of Radioengineering and Electronics
USSR Academy of Sciences, 18 Marx Avenue
Moscow, GSP-3, USSR 103907
Telephone: 7-095-203-4993

A letter from the *IEEE Moscow Section* supporting your proposal is important. Traditionally, large conferences involve the active participation of the local section. This participation is especially desirable considering the unfamiliarity of the Council with holding conferences in the Soviet Union.

I have been reminded that, for international conferences, the IEEE name and logo can only be used on when sponsorship comes from an IEEE Society or Council. Sponsorship, as defined by IEEE, includes significant technical and financial support of a Council or Society. Ideally, most of those involved in the conference will be IEEE members.

I look forward to seeing your proposal. If I receive it before June 20, I can include in the mailing to AdCom members and members of the Council's Meetings Committee. Procedurally, your proposal will be considered by the Meetings Committee on Sunday, July 20, and potentially by AdCom on Monday. You are invited to attend these meetings.

I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair
Patrick K. Simpson, NNC Treasurer
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE TAB

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

В С Н Т О
ЦЕНТРАЛЬНОЕ ПРАВЛЕНИЕ
 Научно-технического общества
 радиотехники, электроники и связи
 имени А. С. Попова
 103897, Москва, Центр ГСП-3,
 Кузнецкий мост, 20/6
 Телефоны: 221-71-08, 924-17-96
 Расчетный счет 700738
 в Держинском отделении Госбанка г. Москвы

№ 273
 На № _____ от _____

Г Moscow, 4 June 1991

Г Prof. Robert J. Marks II Г
 President IEEE
 Neural Network Council
 Interactive Systems Design Lab.
 Department of Electr. Eng., FT-10
 University of Washington
 Seattle, WA 98195
 Tel: (206)543-6990
 FAX: (206)543-3842

Dear professor Marks:

Prof. W.L.Dumin-Barkowski, President of Russian Neural Network Society and Director of Neurocybernetics Research Institute of the Rostov State University informed me about plans to hold a Symposium on Neuroinformatics and Neurocomputers in Rostov 30.09 - 3.10.1992 with a substantial sponsorship of the IEEE. I suppose that the idea is good and such a symposium is apt to be successful.

Neurocybernetics Research Institute has a long-term experience of organizing All-Union and International conferences and Workshops, and Rostov is one of the USSR centers for high technology and science. In particular, NRCI organized in June 1990 USSR Academy of Science session on Informatics, Physics and Electronics of Neural and Neural-like systems. The session was fully successful.

So, I approve this Symposium and wish all the best to its organizers.

Sincerely yours

Academician Yuri V. Gulyaev
 President of Moscow IEEE Section
 President A.S.Popov Society
 Director USSR Acad. Sci. Institute
 of Radioengineering and Electronics

001

Rostov State University
Neurocybernetics Research Institute
Rostov-on-Don, 344104, USSR

Facsimile Cover Sheet

The following pages are for:

Attention: Professor Robert J. Marks II, President
Name of Firm: University of Washington
Location of Firm: Seattle, WA 98195 USA
Facsimile Telephone Number: (206) 543-3842
From: Witali L. Dunin-Barkowsky Phone: (863-2)28-05-88 NA

This Transmission including cover page, contains 2 pages.

Date: 6/11/91 Time: _____

Comments: _____

Please call (863-2)28-05-88 if you not receive all of the pages.

Neurocybernetics Research Institute FAX NUMBER (863-2)24-43-11

002

Rostov-on-Don, June 11, 1991

Dear Professor Marks,

Thank you again very much for invitation at the 9 July Dinner and 10 July Reception.

I would surely take part in these meetings and RNNS authorized me to present its activity at your ceremony.

Many thanks to you for a lot of cares for me.

Hope to see you in July.

Sincerely yours



002

Rostov-on-Don, June 11, 1991

Dear Professor Marks,

Thank you again very much for detailed description of the action required for our

IEEE	NI-NC	ROSTOV-ON-DON
	92	
	HM-HK	POCTOB-HA-DOHY

IEEE 1992 Rostov-on-Don International Symposium
Neuro-Informatics and Neurocomputers.

Academician Ju. Gulyaev informed me that he approves this symposium and has sent a fax on the topic to you.

The forms with the suggestion List of Symposium Committees are sent to you in other list of this fax message. All the Soviet Committees members are informed and their content to participate is confirmed. The consultation with foreign members of Committees I hope to finish during the supposed visit to Seattle.

Of course I am appealing to you to take part in this symposium in three roles:

1) President of International Committee

Committee consists of Neural Network Societies Presidents.

2) A Member of Symposium Committee

There are only you and Prof. R. Hecht-Nielsen from foreigner in this Committee, Others are mainly honorable Russian members excluding Vice-chairman and Secretary.

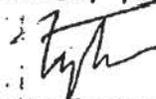
3) A Member of Russian Committee

003

Appended are also the preliminary Sessions Topics and Symposium Schedule.

I hope that the assemblage of document detached to this letter may serve as a first approximation information information for IEEE Neural Network Council Administration on Participation in "NI-NC 92 R-D".

Sincerely yours



W. Dunin-Barkowski

004

IEEE NI-NC 92 ROSTOV-ON-DON
HK-HK POCTOB-HA-DOHY

IEEE 1992 Rostov-on-Don International Symposium
Neuro-Informatics and Neurocomputers.

Chairs:

Symposium Chair: Witali Dunin-Barkowsky

International Chair: Robert Marks II

(John Taylor)

Program Chair: Robert Hecht-Nielsen

Local Committee Chair: Anatoly Kovalyov

Program Committee:

Jasir Abu-Mustafa, James Albus, Leonid Bassalygo,

Robert J. Marks II Library Archive

Roman Borisjuk, Michael Conrad, Witali Dunin-Barkowski,
 Nabil Farhat, Alexander Frolov, Alexander Gorban,
 Aaron Gutman, Robert Hecht-Nielsen, Masao Ito,
 Larry Jackel, Anatoly Kalyaev, Christof Koch,
 Tauvo Kohonen, Djuro Koruga, Ernst Kussul,
 Robert Marks II, Andrey Mikaelyan, Andras Pellimisiz,
 Alexander Petrov, Tomasso Poggio, Terrence Sejnowski,
 Ilya Rybak, John Taylor, Alexander Vedenov,
 Lubov Podlanchikova, Program Committee Secretary

International Committee:

Robert Marks II
 John Taylor
 Bernard Widrow
 President Chinese Neural Network Society
 President Japanese Neural Network Society
 Witali Dunin-Barkowski

Symposium Committee:

Belokon A.V.
 Velikhov E.P.
 Vladimirovsky B.M.

005

Galushkin A.I.
 Gulyaev Ju.V.
 Guriev M.A.
 Dunin-Barkowski W.L. - Chair
 Emel'yanov S.V.
 Kalyaev A.V.
 Khomyakov A.A.
 Kropotov Ju.D.
 Kuznetsov N.A.
 Litvinov E.G.
 Marks R.J. II
 Mikaelyan A.L.
 Pelikhov N.V. - Vice-chair
 Samarin A.I.
 Shevtsova N.A. - Committee Secretary
 Hecht-Nielsen R.J.
 Chorajan O.G.

Local Organizing Committee:

Bibikov N.G.
 Bryuchomitzky Ju.A.

Efimov V.N.
Finkelstein B.A.
Kiselyov B.S.
Kovalyov A.A. - Chair
Lobanov V.S.
Pak V.G. - Secretary
Petrov A.A.
Suchov A.G.
Taubkin V.L.

Preliminary Symposium Schedule

Wednesday, September 30

10:00 a.m. Opening Ceremony
11:00 - 18:00 Plenary Sessions
18:00 - 20:00 Reception

Thursday, October 1
9:00 - 18:00 Technical Sessions
18:00 - 22:00 Party

Friday, October 2
9:00 - 16:00 Fresh Air Session
17:00 - 20:00 Technical Sessions

Saturday, October 3
9:00 12:00 Plenary Session
Closure Ceremony
13:00 - 22:00 Culture Program

Preliminary Session Topics

Topic	Chair
Natural Neural System Informatics	A. Frolov A. Pellionisz
Neurocomputer Perspectives	Robert Hecht-Nielsen Anatoly Kalyaev
Learning Networks	Tauvo Kohonen Alexander Gorban
Sensory Information Processing and Motor Control	Masao Ito W. Dinin-Barkowsky
Hard-ware Neurocomputers	Larry Jackel Christof Koch
Neural Information Theory and Coding	Jasir Abu-Mustafa Leonid Bassalygo

TAB 24



TECHNICAL ACTIVITIES BOARD

TO: Technical Activities Board
FROM: Dov Jaron, Chair, TAB Technical Meetings Council
DATE: May 7, 1991
SUBJECT: Staff Conference Management Service (CMS)

The TAB Technical Meetings Council has been working with staff on establishing a Staff Conference Management Service (CMS). The CMS should provide needed services to Societies/Councils at competitive rates, with potential to generate future income for TAB.

The CMS should function as a cost center under the general oversight of the TAB Technical Meetings Council. Plans call for initial implementation in four areas: site selection, advance registration, on-site registration and printing services. Additional services will be added to meet future needs.

The attached proposal has been developed in response to information received from Society/Council Presidents. The proposed plan was reviewed at the TAB Administration Council meeting on April 6, 1991. TABAC endorses and recommends approval of the following motion:

TAB approve the establishment of a Staff Conference Management Service (CMS), initially using existing staff, with temporary staff added, on an as needed basis. The Staff Director for Technical Activities is permitted to hire such temporary or regular staff positions, provided the projected income is sufficient to cover at least the expenses of the operation.

Requested Action: Approval of the Motion on the Staff Conference Management Service as offered above.
Reference Document: Business Plan on Centralized Conference Management (attached).

TAB 25

WHAT ARE THE BEST NETS TO HAVE
IN THE OCEAN?



IEEE CONFERENCE ON
NEURAL NETWORKS FOR
OCEAN ENGINEERING

August 15-17, 1991 ♦ Loews L'enfant Plaza ♦ Washington, D.C.

NEURAL NETS!

IEEE CONFERENCE ON NEURAL NETWORKS FOR OCEAN ENGINEERING

August 15-17, 1991
Loews L'enfant Plaza
Washington, D.C.

The Conference on Neural Networks for Ocean Engineering (CNNOE) is sponsored by the IEEE Ocean Engineering Society in cooperation with the IEEE Neural Networks Council. Neural networks are having a very large impact on several aspects of the ocean engineering environment in areas such as passive transient sonar signal classification, low-frequency active acoustic sonar signal processing, ocean surveillance, adaptive beamforming, underwater acoustic communication, and many more. This conference will, for the first time, bring the international community together in one meeting to discuss these significant advances.

ORGANIZING COMMITTEE

Honorary Chair: **Barbara L. Yoon**, DARPA
General Chair: **Rui J.P. deFigueiredo**, University of California at Irvine
Co-Chair: **Ferial El-Hawary**, Technical University of Nova Scotia
Program Chair: **Patrick K. Simpson**, General Dynamics
Finance: **Gordon Raisbeck**, Ocean Engineering Consultant

PROGRAM COMMITTEE

Chair: **Patrick K. Simpson**
Committee:

Daniel Alspach	Stephen A. Luse	Leon Sibul
Rui J.P. deFigueiredo	Thomas McKenna	James C. Solinsky
James Stark Draper	Patrick Moore	Donald F. Specht
Robert L. Field	Paul Patrick	Charles E. Stuart
Filson H. Glanz	Michael Rousseau	Terry Thompson
Alain Lemer	Dov Shazeer	Bernard Widrow

KEYNOTE SPEAKERS

Rear Admiral William C. Miller
Chief of the Office of Naval Research

Daniel L. Alspach
President, Orincon Corporation



SCHEDULE**PLENARY TALKS**

THURSDAY, AUGUST 15, 1991

7:00 pm - 9:00 pm *Opening Remarks - Bernard Widrow, Stanford University***Rear Admiral William C. Miller***Chief of the Office of Naval Research*

Rear Admiral Miller is responsible for the largest research budget in the navy. In his plenary address he will discuss his perspective of the future for neural networks in the operational navy environment.

Daniel L. Alspach*President, Orincon Corporation*

Dr. Alspach is the President of one of the most successful companies in the area of neural networks for ocean engineering. In his plenary address he will share his views on the future ocean engineering applications of neural networks over the next twenty years.

PANEL DISCUSSION

FRIDAY, AUGUST 16, 1991

7:00 pm - 9:00 pm**Rui J.P. deFigueiredo***University of California, Irvine*

Dr. deFigueiredo is the Director of the Laboratory for Intelligent Sensors and Systems at University of California, Irvine. He will lead a panel discussion of neural network and ocean engineering experts who will interactively share their opinions on neural network technology as applied to

feature extraction and classification of ocean data. Invited panelists include Professor T. Kailath and B. Widrow of Stanford University, and Drs. James Stark Draper of KTAADN, A. Lerner of Thomson Sintra ASM, J.C. Solinsky of SAIC, and D.F. Specht of Lockheed.

TUTORIALS

THURSDAY, AUGUST 15, 1991

Tutorials will be offered from 8:00 am to 12:00 noon and again from 1:00 pm to 5:00 pm

1. AUDITORY NEURAL SYSTEMS AND TIME-FREQUENCY THEORY*Les E. Atlas & Robert J. Marks II, Univ. of Washington*

Learn how to go beyond the FFT for spectral estimation. This tutorial describes a new method of frequency estimation that operates in $O(n)$ time and provides wavelet-like decomposition.

2. MARINE MAMMAL SONAR AND NEURAL NETWORKS*Whitlow W. Au, Patrick W.B. Moore & Paul E. Nachtigall, Naval Ocean Systems Center**Herbert L. Roitblat, University of Hawaii*

Learn how the bottlenosed dolphin processes sonar signals. Signal processing, feature extraction, echolocation and classification will be discussed.

3. FUZZY MODELS AND COMPUTATIONAL NEURAL NETWORKS*James C. Bezdek, University of West Florida*

Learn about fuzzy set theory, fuzzy classifiers, and their relationships to neural networks. Pattern classification and signal processing will be emphasized with several applications.

4. ENGINEERING A SOLUTION WITH NEURAL NETWORKS*Russell C. Eberhart, Johns Hopkins University, Applied Physics Laboratory*

Learn how to determine if a neural network solution is right for your problem and if it is, how to go about engineering the solution. Several applications, performance metrics, and analysis tools will be presented.

5. NEURAL NETWORKS DATA FUSION*Mitch Eggers, Houston Advanced Research Center and Rice University*

Learn how neural networks are being used to approach one of the most difficult problems in the modern computing era - data fusion. Applications and alternative approaches will be emphasized.

6. NEURAL NETWORKS FOR CONTROL*Jay A. Farrell, Charles Stark Draper Laboratories**Filson H. Glanz, University of New Hampshire**L. Gordon Kraft III, University of Connecticut*

Learn how neural networks are being used in adaptive control. Application to the undersea vehicles is the focus with many comparative examples.

7. NEURAL NETWORKS FOR SONAR TARGET CLASSIFICATION*R. Paul Gorman, Allied Signal Technology Center*

Learn how feedforward neural networks are being applied to active and passive sonar signal processing problems. Several applications will be presented in the areas of echo classification, transient identification, and side-scan sonar image recognition.

8. NEURAL NETWORKS FOR SONAR SIGNAL PROCESSING*Anthony P. Russo, AT&T Bell Laboratories*

Learn about the latest techniques for developing robust signal classification systems using feedforward neural networks. Several neural network enhancements will be reviewed and analyzed with an emphasis on application specific requirements.

SCHEDULE**PARALLEL SESSIONS**

FRIDAY, AUGUST 16, 1991

8:00 am - 12:00 noon**PASSIVE TRANSIENT CLASSIFICATION**

Chairs: James C. Solinsky, SAIC
Richard Trueblood, Orincon

Papers: DeSai and Shazeer, *Martin Marrietta*;
Deuser, et al, *Tracor*; Hamilton and
Cottle, *Raytheon*; Kerrigan, *GTE*
Government Systems; Pao, *Case*
Western University; Solinsky, SAIC

8:00 am - 12:00 noon**UNDERWATER IMAGE PROCESSING**

Chairs: Alain Lemer, *Thomson Sintra ASM*
Dov Shazeer, *Draper Labs*

Papers: Bourgeois and Walker, *NOARL*; Eapon,
NPOL; Gan, *Coustical*; Russo, *AT&T Bell*
Labs; Shazeer and Below, *Draper Labs*;
Speidel, *NOSC*

1:00 pm - 5:00 pm**ACTIVE SONAR AND BIOACOUSTICS**

Chairs: Patrick Moore, *NOSC*
Terry Thompson, *Orincon*

Papers: Chen, *Southern Massachusetts Univ.*;
Field, *NOARL*; Gorman, *Allied Signal*, *Haley*,
NUSC; Nachtigall, et al, *NOSC*; Lin, *Purdue*
Univ. Ruey-wan, Soon and Huang, *Notre*
Dame; Silven, *General Dynamics*

1:00 pm - 5:00 pm**AUV/ROV APPLICATIONS**

Chairs: James Stark Draper, *KTAADN*
Filson Glanz, *Univ. of New Hampshire*

Papers: Draper, *KTAADN*; Dzwonczyk, et al.,
Draper Labs; Parten & Pap, *Accurate*
Automation; Schiller and Draper, *KTAADN*;
Stover and Gibson, *Penn State ARL*;
Suebe, *Thomson Sintra ASM*; Westerman,
NOSC; Yuh and Lakshim, *Univ. of Hawaii*

PARALLEL SESSIONS

SATURDAY, AUGUST 17, 1991

8:00 am - 10:00 am**OCEAN MONITORING AND MODELING**

Chairs: Robert L. Field, *NOARL*
Paul Patrick, *Ontario Hydro Research*

Papers: Frankel and Draper, *KTAADN*; Haykin
and Leung, *McMaster Univ.*; Parisini, *DIST -*
University of Genoa; Ramani, et al.,
Ontario Hydro Research; Simpson,
Polytechnic Southwest

10:00 am - 12:00 pm**GOVERNMENT PROGRAM OVERVIEWS**

Chairs: Thomas McKenna, *ONR*
Charles Stuart, *DARPA*

Talks: R. Glass, *DARPA*; R. Kolesar, *NOSC*;
T. McKenna, *ONR*; M. Rousseau, *NUSC*

8:00 am - 12:00 pm**PASSIVE SONAR SIGNAL PROCESSING**

Chairs: R. Paul Gorman, *Allied Signal*
Donald F. Specht, *Lockheed*

Papers: Greene, *Univ. of New Orleans*; Hamilton
and Pridham, *Raytheon*; Lemer and
Lefebvre, *Thomson Sintra ASM*, *Montanna*,
Bolt Beranek and Nowmann; Perlovsky,
Nichols Research; Zakarauskas, et al., *DREP*

1:00 pm - 5:00 pm**NEURAL NETWORK CLASSIFIERS**

Chair: Michael Rousseau, *NUSC*

Papers: Fogel and Fogel, *Orincon*; Glanz and
Miller, *University of New Hampshire*;
Simpson, *General Dynamics*; Sin and
deFigueiredo, *University of California*,
Irvine

1:00 pm - 5:00 pm**NEURAL NETWORK ANALYSIS**

Chair: Leon Sibul, *Penn State ARL*

Papers: Barton, et al., *Orincon*; Jacyna, *Mitre*;
Moura, *Carnegie Mellon*; Papantoni-
Kazakos and Kazakos, *University of*
Virginia

CONFERENCE INFORMATION

CONFERENCE SETTING

Located in the heart of Washington's business and government community and within walking distance of many historic sites including the Air and Space Museum, Smithsonian, the Capitol and the Washington Monument, and less than ten minutes from National Airport, the Conference on Neural Networks for Ocean Engineering will be held:

Loews L'enfant Plaza Hotel
480 L'enfant Plaza S.W.
Washington, D.C. 20024
Reservations: (202) 484-1000

All participants of the CNNOE will receive a special room rate of \$105 for either Single or Double occupancy. Reservations received after **July 22, 1991** will be confirmed on a space- and rate-available basis. Also available to Conference participants are special *Club 480 rooms which include breakfast, newspaper, King or Queen size bed, sitting area and other unique amenities. *Club 480 room rates are \$175. **PLEASE RESERVE EARLY.**

REGISTRATION FEES

Full Registration Fee includes admission to all sessions, reception, and banquet, plus Proceedings. A discount is allowed to all current IEEE members. Member Number required.

IEEE Member Registration Fees:	Non-Member Registration Fees:
\$185 Before July 1, 1991	\$245 Before July 1, 1991
\$240 Before August 9, 1991	\$300 Before August 9, 1991
\$270 After August 9, 1991	\$330 After August 9, 1991
\$ 60 Student*	\$120 Student*

*Student Registration applies to full-time students only. A letter from your department head verifying status is required. At conference check-in, you must present a current student ID. Fee includes admission to all sessions and reception only. Proceedings are not included.

TUTORIAL REGISTRATION FEES

Only registered conference participants may register for Tutorials.

One Tutorial.....\$150 Two Tutorials.....\$250

All foreign payments must be made by draft by a U.S. bank in U.S. dollars.

NO CREDIT CARDS ACCEPTED.

Cancellations: If conference or tutorials registration is cancelled prior to August 13, 1991, your fee less U.S. \$30 for administrative cost, will be refunded upon written request. No refunds will be made for cancellations received after August 13, 1991.

FURTHER INFORMATION

For further information, call or write:

CNNOE
 Meeting Management
 5665 Oberlin Drive, Suite 110
 San Diego, CA 92121
 Tel. (619) 453-6222
 FAX (619) 535-3880

AIRLINE TRANSPORTATION

American Airlines offers special fares for participants of the CNNOE. **40% off** on all regular coach fares or **5% off** Supersaver fares. From Canada: **35% off** coach, if applicable.

To make your reservation call Terra Tours & Travel (800) 444-9554 in the U.S. From Canada call (619) 454-9551. This offer is valid August 10-21. Discounted seats are limited. PLEASE CALL EARLY.

HOTEL RESERVATION FORM

Neural Networks for Ocean Engineering
August 15-17, 1991

Loews L'enfant Plaza Hotel
Reservations: (202) 484-1000

Single \$105
 Double \$105
 Club 480 \$175

DEADLINE DATE: JULY 22, 1991

All rates subject to applicable taxes.

Check in time 3:00 pm - Check out time 1:00 pm

Name _____

Firm _____

Street _____ City _____

State _____ Zip _____ Telephone Office (____) _____ Home (____) _____

Sharing With _____ Arrival Date _____ Departure Date _____

Reservations are not transferable and are held until 6:00 pm unless guaranteed by one of the following:

American Express Card Diners Club Card Card # _____ Exp. Date _____

Signature _____ Advance Deposit (One Night) _____

Failure to receive your cancellation notice 24 hours prior to the day of arrival will result in one night's charge.

Mail to: **Loews L'enfant Plaza Hotel**
480 L'enfant Plaza, S.W.
Washington, D.C. 20024

CONFERENCE REGISTRATION FORM

CNNOE
August 15-17, 1991

Last Name _____ First Name _____ M.I. _____

Address _____
Dr. Mr. Ms.

City _____ State _____ Zip _____

Telephone Office (____) _____ FAX (____) _____

IEEE Membership Number _____

CONFERENCE FEE ENCLOSED:

Before July 1st _____ \$185 Member _____ \$245 Non-Member

Before August 9th _____ \$240 Member _____ \$300 Non-Member

After August 9th _____ \$270 Member _____ \$330 Non-Member

Student _____ \$50 Member _____ \$120 Non-Member

(Verify for all transactions)

TUTORIAL FEE ENCLOSED:

One Tutorial _____ \$150 Circle One: 1 2 3 4 5 6 7 8

Two Tutorials _____ \$250 Circle Two: 1 2 3 4 5 6 7 8

MAKE CHECK PAYABLE TO: IEEE CNNOE
Mail to: **CNNOE Registration**
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego CA 92121

TAB 26

- Coordinating Society membership promotions;
- Providing Chapters support; and
- Processing Society award requests.

For additional information on these services, and the required lead times, please contact Marsha Tickman or Rosanne Loyal in the Society General Activities office.

Products Management

The Products Management Department, overseen by Gerald Lapidus, administers various business aspects of TAB and Society related products, such as conference records and the All Societies Periodicals Package. This department, along with Conference Services, jointly administers the Book Broker program. Working in conjunction with IEEE Marketing, the Products Management Department develops and supports marketing and promotion programs to stimulate the sale of conference records and the All Periodicals Package. These programs are directed to libraries, booksellers, and individuals.

TAB Council/Committee Staff

TAB Administration Council

Laura Jobmann
Georgina Crane
Stacy Marcone

TAB Liaison Council

TAB Periodicals Council

TAB Publications Products Council

TAB Technical Meetings Council

TAB Awards & Recognition Committee

Book Broker Committee

RAB/TAB Chapters Committee

TAB Finance Committee

TAB New Technology Directions Committee

TAB Nominations and Appointments Committee

TAB Staff Activities Committee

TAB Strategic Planning and Review Committee

Cindy Jablonowski
Marsha Tickman
Tania Skrinnikov
Jayne Cerone

Laura Jobmann

Irving Engelson
Dino Sethi

Technical Activities Department Staff

Irving Engelson, Staff Director (908) 562-3850
Dino Sethi, Society Administrative Services Director (908) 562-3901
John Vitale, Society Support Services Director (908) 562-3858
Jayne Cerone, Coordinator, Society Communications (908) 562-3908
Georgina Crane, Administrator, TAB Secretariat (908) 562-3920
Mary Ann DeWald, Administrator, Conference Services (908) 562-3873
Cindy Jablonowski, Assistant, TAB Products (908) 562-3913
Laura Jobmann, Manager, TAB Secretariat (908) 562-3910
Fern Katronetsky, Administrator to the Staff Director (908) 562-3852
Gerald Lapidus, Manager, TAB Products (908) 562-3912
Rosanne Loyal, Administrator, Society General Activities (908) 562-3904
Stacy Marcone, Administrator, TAB Secretariat (908) 562-3911
Marilyn Prusan, Administrator, TAB Finance (908) 562-3861
Perry Sensi, Manager, Conference Services (908) 562-3871
Tania Skrinnikov, Manager, TAB Finance (908) 562-3860
Marsha Tickman, Manager, Society General Activities (908) 562-3903
Heidi Zazza-Roth, Administrator, TAB Finance (908) 562-3856
General Information (908) 562-3900
Other IEEE Contacts
New York Headquarters General Number (212) 705-7900
New Jersey General Number (908) 981-0060
Washington IEEE-USA Office (202) 785-0017
Field Services Information (908) 562-5501
Publishing Services Information (212) 705-7560
Standards Information (908) 562-3800

WHAT HAVE WE DONE
FOR YOU LATELY?

A GUIDE TO STAFF SERVICES

IEEE Technical Activities
445 Hoes Lane
Piscataway, NJ 08855-1331, U.S.A.
Telephone: (908) 562-3900
FAX: (908) 562-1571



Dear Reader:

This brochure gives an overview of the IEEE Technical Activities Department (TAD) and the various ways we support YOUR work with the IEEE.

The TAD staff provides general administrative support to the 37 IEEE Societies and Technical Councils, as well as the Technical Activities Board and its Administrative Councils and Committees.

There are specialized groups within TAD assigned to help volunteers with specific aspects of IEEE policies and procedures. These groups are Conference Services, Finance, TAB Secretariat, Society General Activities, and Products Management. This brochure describes these functions. Additional staff provide general support.

We also have staff who are dedicated to -- and funded by -- individual Societies.

The information in this brochure is accurate as of June 1991; an updated brochure will be published in early 1992.

Most of the TAD staff are located at the IEEE offices in Piscataway, New Jersey. We also maintain an office in Brussels, Belgium. A directory of names and phone numbers is included on the back of this brochure. If you have any questions on this material, please call the staff person(s) listed as a contact(s) in that particular area.


Irving Engelson, Ph.D.
Staff Director

June 1991

Conference Services

The Conference Services staff, under the direction of Perry Sensi, is available to assist the conference organizing committees and Society officers of all IEEE sponsored and cosponsored conferences.

Their activities include:

- general conference planning assistance;
- assistance in publicity to IEEE members;
- coordination of the budget review process;
- support in production of conference records;
- administration of post-conference record sales (in conjunction with the IEEE Marketing Department); and
- review of post-conference financial reports.

In addition, the Department publishes the Technical Activities Guide, a quarterly publication listing upcoming IEEE conferences.

Society and Council Finances

Services involving Society finances are coordinated through the TAB Finance office under the direction of Tania Skrinnikov. She works with Society officers to develop the annual Society budget, based on past performance and a series of guidelines involving membership, conferences and publications. Mailings of the Financial Operating Statement keep both the volunteers and staff up-to-date on the finances of each Society.

Marilyn Prusan, the Finance Administrator, fulfills requests for conference loans, travel/editorial advances and reimbursement of expenses. This office also processes financial awards. Heidi Zazza-Roth, Finance Administrator, handles the processing of payments to Conferences for purchases of conference records through the Book Broker Program.

Support to the Technical Activities Board

Primary support to the Technical Activities Board is provided by the TAB Secretariat. Managed by Laura Jobmann, the Secretariat coordinates various aspects of TAB meetings; keeps up-to-date records of TAB rosters, appointments and charters; acts as an interface between TAB and other Boards and Committees and the IEEE staff; produces the TAB Roster; assists with Committee mailings and meetings; maintains archival records of TAB and its Councils/Committees; and prepares reports, including "Newsbriefs."

In addition, selected TAD staff provide administrative support to the Councils and Committees of the Technical Activities Board. The staff contact person for each Council/Committee is listed at the end of this brochure.

General Support to Societies and Technical Councils

A wide range of administrative services are available for Societies and Technical Councils through the Society General Activities office headed by Marsha Tickman. Some of the services include:

- Mailing of AdCom Meeting Notices, Agendas and Minutes;
- Printing of Society/Council stationery;
- Running Society/Council elections -- including distributing the call for nominations, preparing the ballot, tallying votes and announcing the election results;
- Obtaining mailings labels, rosters and statistics;
- Maintaining committee rosters;
- Providing new member labels and mailing Welcome Letters;
- Keeping records of all Society/Council Constitutions and Bylaws;
- Acting as an archive for AdCom minutes and other key documents;

TAB 27

EXCOM MINUTES - FEBRUARY 7, 1991

Present

- R. Marks, presiding
- R. Eberhart
- P. Simpson, acting secretary
- M. Roth
- B. Dickinson
- R. Nutter
- T. Fukuda

The meeting was called to order at 2:00 pm PST. The agenda was adopted with the following changes:

1. "Officer Liason Duties" deleted from President's Report
2. "Fuzzy Conference" added to President's Report
3. "NNC Newsletter" added to Old Business
4. "Next AdCom Meeting" added to Old Business
5. "Summary of Action Items" added as item 10.

Marks reported on the recent TAB meetings. TAB is experiencing financial hardship and has been given a loan from the IEEE. Modifications have been made to the publications rate. Roth and Simpson have received copies of the modifications.

A President's Breakfast that would gather all of the presidents of all the neural network societies from around the world was approved. The invitation list includes:

IEEE
International Neural Network Society
Japanese Neural Network Society
Australian Neural Networks Society
Chinese Neural Network Society
Russian Neural Network Society
Joint European Neural Network Initiative

It was approved that the IEEE NNC would offer to pay for travel and 1 night lodging.

The Singapore budget had not been approved yet. Eberhart will secure a current copy and submit it to a mail ballot vote for approval.

The Standards Committee has been elevated from an AdHoc Committee to a full Standing Committee. The Auburn NN Workshop showed great interest. Tzanakou is currently the Chair, but a full time replacement is being sought.

The ExCom went into Executive Session to discuss the INNS/IEEE Dissolution Agreement. As a result of the Executive Session there were two action items:

1. Marks will draft a letter to Werbos (INNS President) describing the dissolution.
2. The IEEE NNC symbol will be registered.

The IJCNN 89 Audit will be officially submitted to IEEE HQ with documentation supporting the financial practices during and after the conference.

The Beijing IJCNN is coming along. A general chair needs to be approved. Marks is empowered to do this.

The Portland IJCNN Chair (Lendaris) has not been approved by the INNS. This will be cited as a dissolution condition in Marks letter to Werbos.

Summary of Action Items:

1. Registration of IEEE NNC Symbol (Marks)
2. Dissolution Letter (Marks)
3. President's Breakfast (Marks)
4. Type Minutes (Simpson)
5. Singapore Budget Approval (Eberhart)
6. 89 Audit Distribution (Simpson/Marks)
7. Standards Committee Chair (Marks)

Meeting was adjourned at 3:10 pm PST.

TAB 28

DRAFT

The IEEE NNC ExCom meet via conference call April 22, 1991. Bob Marks called the meeting to order at 10:15 am (PDT).

Attendance: Present: Marks, Eberhart, Tzanakou, Simpson, Roth, Dickinson (*ex-officio*), Fukuda (*ex-officio*), Nutter (*ex-officio*), Ruth Wagner (secretary). Absent: Karplus (*ex-officio*).

Adoption of Agenda - The following Agenda was adopted.

- Adoption of agenda
- Approval of minutes
- President's report
 - Towards a Society
 - 1989 Washington, DC, IJCNN
 - Council Registration
 - IEEE Awards
 - 1992 Fuzz-IEEE
 - Educational Activities
 - Council Trademark
 - Fuzzy Transactions Ad Hoc Committee
 - INNS Relation
 - 1991 Seattle IJCNN
- Vice President's report
 - INNS
 - Committee Support
- Editor's report
- Secretary's report
- Treasurer's report
- Standing Committee reports
- Old Business
 - Future Meeting Dates
- New Business
 - Meetings
 - Soviet Conference
 - Intelligent Vehicles
 - Next ExCom

Approval of minutes: As the minutes of the previous ExCom meeting were not in the packet, it was agreed to review them along with these minutes at the next meeting.
Action Item: Pat Simpson agreed to Draft the minutes & forward them to Marks.

PRESIDENT'S REPORT (Marks)

NNC Council ExCom Proprietary: There was consensus that the Council should move towards a Society by 1993 following the outline proposed by Marks.

Action Item: Pat Simpson will draft an updated statement of purpose to reflect the Council's involvement in the broader areas of biologically and linguistically motivated systems.

Action Item: Marks will appoint an ad hoc Committee to put together a proposal for consideration of an IEEE Transactions on Fuzzy Systems. Zadeh and Bezdek will be asked to be members.

1989 IEEE/INNS IJCNN Washington D.C audit

Action by Consensus:

1. Simpson will check to see if accounts have been closed for the \$2000 and will inform Marks of the results.
2. Letters to IEEE Audit Committee and/or the Members Misconduct Committee concerning the finances of the Washington IJCNN will be sent by Marks.

By consensus ACTION ITEM: Tzanakou will be the point person to insure registration of the Council in the Engineering organizations catalog.

Information Item: Any information or suggestions for awards listed in the appendix of the meeting material should be forwarded to the Awards Chair, Brad Dickinson.

Bezdek has submitted the 1992 FUZZ-IEEE budget to IEEE.

ACTION: Refer to the meetings committee for approval and then to AdCom.

Taping Sessions - Peter Wiesner, Manager, Individual Learning Activities, approached Marks about recording the sessions at IJCNN in Seattle. Extensive discussion followed as to how to do this to get good quality tapes. Possibilities are (1) the tapes could be done in a separate taping room or (2) that they be done after the conference when it could be edited. It was suggested that an ad hoc committee be formed and that one or universities with facilities for taping classes be contacted. Concentration will be on Fuzzy and Neural Nets. The question was raised as to what's in it for the author. It would probably be run like IEEE Press-with an upfront amount for lodging, travel. EAD was what their involvement would be. The question was not answered directly but they would send out publicity. Suggested committee: Mohamed El-Shakarwi (UW); Simpson (who has been a member of a similar committee); Karen Haines.

Trademark Registration - Moved by Eberhart, seconded by Dickinson to use \$1,000 of funds to trademark the ICNN name and logo.

Action Item: Simpson will fill out the forms and submit the trademark forms.

INNS Relations: The INNS has sponsored a neural nets meeting within one month of the Singapore IJCNN. This is in violation of the Agreement between the Societies. Marks wrote a letter of protest to Werbos.

ACTION: Refer to IOC and Meetings Committee.

IEEE Press would like NNC to sponsor the reprint books edited by Dr. Clifford Lau.

ACTION by CONSENSUS: The Council will offer to sponsor both of the Lau books. The Council will promote the Lau book in a newsletter ad for the period of one year.

VICE-PRESIDENT's REPORT (Eberhart)

The INNS headed Seattle IJCNN accepted 300 out of 700 accepted papers. Marks stated his concerns were two fold:

1. There will be a strong negative financial impact on the conference.

2. The reputation of the conference would be hurt. The INNS requested an additional 12.5k to accept the remaining 400 papers as posters and simply publish the abstracts.

MOTION: The request by INNS be rejected.

The motion passed unanimously.

ACTION: Marks inform Werbos of the decision. Marks will ask Werbos that any additional business conducted by INNS that needs to be bought before the Council be done so in writing.

ACTION: Marks & Fukuda send a letter to all those who submitted a paper to the Seattle IJCNN encouraging them to submit to the Singapore IJCNN. Litsa and Roy will comment on drafts of the letter. Marks will write first draft.

MOTION: Up to \$1000 in Council funds be allotted to Pat Reilly to attend the next COMAR meeting. The motion passed unanimously.

EDITOR'S REPORT (Roth)

The approved increase in Transactions pages would take effect next calander year.

SECRETARY'S REPORT (Tzanakou)

none

TREASURER'S REPORT (Simpson)

The Council's Budget is soon due. Supply any input soon.

STANDING COMMITTEE REPORTS

Awards (Dickinson)

The results of the Poineer and Paper of the year awards will be soon subjected to mail vote by AdCom. The awards will be given at the reception of the Seattle IJCNN.

Publications (Fukuda)

Book proposals from Bezdek would be coming forth soon.

Meetings (Nutter)

MOTION: San Francisco was apoproved as the FUZZ-IEEE 93 sight subject to approval of the meetings committee and AdCom. Nutter will contact Nomi about this.

MOTION: Washington D.C. will be the sight of the World Congress on Intelligent Systems subject to approval of the meetings committee and AdCom. Roy will so inform Nomi.

ACTION: The meetings committee will recomend chairs for the FUZZ-IEEE 93 and the World Congress Conferences.

ACTION: Marks will follow up on the Soviet letter and appoint a conference advisor.

MOTION: The NNC will be a cooperating society for the intelligent vehicles workshop if it is not within a month of the Beijing IJCNN. Roy will send the letter.

OLD BUSINESS

Already Covered

NEW BUSINESS

ExCom will be held in Singapore. Eberhart and Roth will investigate use of video teleconferencing possibilities.

The meeting was adjourned at 12:03 P.M., PDT by
Bob Marks.

compiled by Ruth Wager & Bob Marks

TAB 29

June 15, 1991

IEEE Council on Neural Networks:

Ex Com (1991)

President

Robert J. Marks II
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
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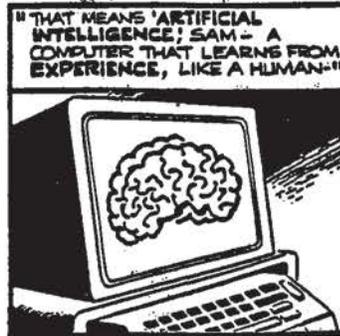
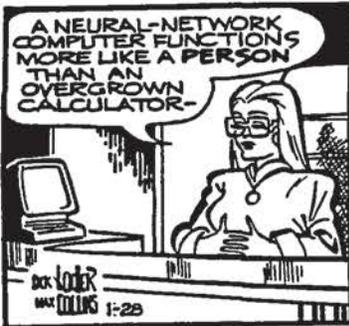
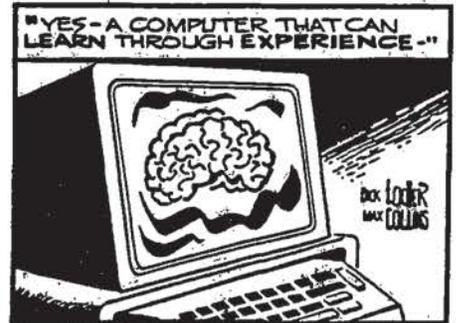
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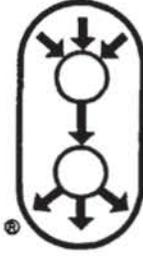
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DICK TRACY

Dick Locher and Max Collins





~~Tues @ noon 8:00~~

~~Wed 8:00 Bannen~~
10:00

House of Hong
Thurs, Noon

12:00
Reg. Dest

IEEE Neural Networks Council

◆ Ad Com ◆

◆ Standing Committee Meetings ◆

◆ IJCNN Oversight Committee ◆

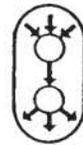
WASHINGTON STATE CONVENTION & TRADE CENTER

JULY 7-9, 1991





NEURAL NETWORKS COUNCIL



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Dear NNC AdCom Members,

Greetings!

In this book is the material related to many items to be discussed during our July 7-8, 1991 meetings.

The volume of the material herein reflects the diverse and dynamic activities of our Council. Besides continuation of our successful IJCNN conference series and the most widely circulated archival publication on neural networks in the world, we will, at the Seattle IJCNN, witness the first significant activities in the areas of awards and standards. We will also be discussing new exciting initiatives, including the establishment of a *World Congress on Intelligent Systems*, initiation of the *IEEE Transactions on Fuzzy Systems* and birth of our Council's publication and video tutorial programs.

I look forward to seeing you in sunny Seattle.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob Marks'.

Robert J. Marks II, President
IEEE Council on Neural Networks

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Meeting Schedule

The AdCom and related meetings of the *Neural Networks Council* will be held at the Seattle IJCNN in the *Washington State Convention & Trade Center*. The Center is located in downtown Seattle and is the sight for the Seattle IJCNN. Information about lodging can be obtained from Sarah Eck, 206 543 0888.

NNC Activities. Rooms are at the Convention Center.

Sunday, July 7, 1991

602	2-5 PM	IJCNN Oversight Committee	Roy Nutter, Chair
603	2-5 PM	NNC Awards Committee	Brad Dickinson, Chair
602	6-9 PM	NNC Standards Committee	Walter Karplus, Chair
603	6-9 PM	NNC Meetings Committee	Roy Nutter, Chair
604	6-9 PM	NNC Publications Committee	Toshio Fukuda, Chair

Monday, July 8, 1991

602-603 9 AM - 4PM NNC AdCom* Bob Marks, President
(We will recess for a light lunch. Hopefully, we will finish well before 4:00.)
8:20 PM Ballroom 6th floor NNC Awards @ IJCNN Reception

Tuesday, July 9, 1991

607 NNC Standards Committee Walter Karplus, Chair

Wednesday, July 10, 1991

President's Forum

Thursday, July 11, 1991

NNC ExCom Lunch

Proposed Agenda
IEEE Neural Networks Council
Administrative Committee Meeting

9:00 A.M., Monday, July 8, 1991
 Washington State Convention & Trade Center, Room 603

All Closed Thursday - Lunch
No Repres

- ◆ Greetings
 - 1. Introductions
 - 2. Declaration of Proxies
- ◆ Approval of Agenda ⇒TAB 1 ⇒
- ◆ Election of Officers for 1992 ⇒TAB 2 ⇒
- ◆ Approval of Minutes ⇒TAB 3 ⇒
- ◆ Consent Agenda
- Appointments
- ◆ Officer and Committee Reports
- Officer Reports
 - President's Report (Marks)
 - Past President's Report* (Nagle) ⇒TAB 4 ⇒
 - Vice-President's Report (Eberhart)
 - Treasurer's Report (Simpson) ⇒TAB 5 ⇒
 - Secretary's Report (Tzanakou) → *Publ. Subscription Prices*
 - Editor's Report (Roth) ⇒TAB 6 ⇒
- Committee Reports#
 - Publications Committee
 - * Newsletter (Fukuda) → *Transactions of Fuzz Systems 13*
 - * IEEE Press (Snyder) → *Subscription*
 - * Pub Committee Action & Info (Kartalopoulos)
 - Awards Committee (Fukuda)
 - Standards Committee (Dickinson) ⇒TAB 7 ⇒
 - IJCNN Oversight Committee (Karplus)
 - Dissolution Agreement (Nutter)
 - IOC Action & Information Items (Marks) ⇒TAB 8 ⇒
 - (Nutter)
- Meetings Committee
 - * Meetings Committee Items (Nutter)
 - * IJCNN Seattle '91 Status (Nutter)
 - * IJCNN Singapore '91 (Nutter)
 - * FUZZ-IEEE '92 (Low/Eberhart) → *Volunteer Guide*
 - * IJCNN Summer '92 - Baltimore (Bezdek)
 - * IJCNN Autumn '92 - Beijing (Lau)
 - * IJCNN Summer '93 - Portland (Sha)
 - * FUZZ-IEEE '93 (Nutter)
 - * IJCNN Autumn '93 - Japan (Ruspini) → *Approve?*
 - (Fukuda)

Assoc Ed

Budget

Nov 3, 1992

* Prof. Troy Nagle was the first Chair of the IEEE Neural Networks Committee, and is a current candidate for IEEE Vice President.
 # The material in the Standing Committee section of this booklet may be cited here.

- Education Committee (Newcomb)
 - * Student Support (Marks/Newcomb) ⇒TAB 9 ⇒
 - * Video Tutorials (El-Sharkawi) ⇒TAB 10 ⇒
 - ◆ Old Business
 - ◆ New Business
 - ExCom
 - Field of Interest Change (Simpson) ⇒TAB 11 ⇒
 - Trademark Registration (Simpson)
 - Eng. Organizations Catalog registration (Tzanakou)
 - Russ Secretary
 - ◆ Next Meeting ⇒TAB 12 ⇒
 - ◆ ADJOURN
- New St Comm*

Proposed Agenda

NNC Publications Committee

Toshio Fukuda, Chair

Washington State Convention & Trade Center, Room 604,
 Sunday, July 7, 1991, 6 PM

- ◆ Greetings
 - ◆ Action Items
 - Proposal for IEEE Trans. on ~~Neural Networks~~ ^{Fuzzy Systems} (Bezdek) ⇒TAB 13 ⇒
 - Intelligence Newsletter (Marks) ⇒TAB 14 ⇒
 - ◆ Information Items
 - Non Member Subscription Prices (Marks) ⇒TAB 15 ⇒
 - Managing Editor Contract (Marks) ⇒TAB 16 ⇒
 - ◆ Other Business
 - ◆ ADJOURN
- Ruspini*

Proposed Agenda

IJCNN Oversight Committee

Roy S. Nutter, Chair

Washington State Convention & Trade Center, Room 602
 Sunday, July 7, 1991, 2 PM

- ◆ Greetings & Roll Call
- ◆ Adoption of Agenda
- ◆ Baltimore IJCNN Budget Approval (Marks) ⇒TAB 17 ⇒
- ◆ NNC Agenda Items (Marks) ⇒TAB 18 ⇒
- ◆ Other Business
- ◆ ADJOURN

130
 257
 123
 512

Proposed Agenda
NNC Meetings Committee
Roy S. Nutter, Chair
Washington State Convention & Trade Center, Room 602
Sunday, July 7, 1991, 6 PM

- ◆ Greetings
- ◆ Adoption of Agenda
- ◆ Action Items
 - NNC Forum Proposals (Nutter) ⇒TAB 19 ⇒
 - Future Meeting Dates (Marks) ⇒TAB 20 ⇒
 - FUZZ-IEEE '92 Budget ⇒TAB 21 ⇒
 - Intelligent Vehicles '92 (Marks) ⇒TAB 22 ⇒
 - Russian Conference (Marks) ⇒TAB 23 ⇒
- ◆ Information Items
 - Conference Services from IEEE (Marks) ⇒TAB 24 ⇒
 - IEEE CONNOE (Simpson) ⇒TAB 25 ⇒
- ◆ Other Business
- ◆ ADJOURN

APPENDICES

- TAD Information ⇒TAB 26 ⇒
- NNC ExCom Minutes*
 - * February 7, 1991 ⇒TAB 27 ⇒
 - * April 22, 1991 ⇒TAB 28 ⇒
- NNC AdCom Members ⇒TAB 29 ⇒

TAB 1



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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June 20, 1991

Prof. Robert J. Marks, II
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RE: Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

As of today, I have received the following nominations for the 1992 officers of the IEEE Neural Networks Council:

For President: Russell Eberhart

Newcomb

For Vice-President: Patrick K. Simpson

Tzanzkou

For Treasurer: Roy Nutter

Kartalopoulos, Treasurer

For Secretary: Tushio Fukuda

Don Brown

All nominations have been seconded.

Please let me know if you have any questions concerning these nominations.

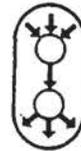
Best wishes,

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



COUNCIL ON NEURAL NETWORKS



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3-26-91

Dear NNC AdCom Members:

Greetings!

A great deal is happening in the Council. First, some

ANNOUNCEMENTS

◆ AdCom

The AdCom and related meetings of the *Neural Networks Council* will be held at the Seattle IJCNN in the *Washington State Convention & Trade Center*. The Center is located in downtown Seattle and is the sight for the Seattle IJCNN. The meeting room locations will be announced in the mailing you will be receiving at the end of June.

Sunday, July 7, 1991

2-5 PM	IJCNN Oversight Committee	Roy Nutter, Chair
2-5 PM	NNC Awards Committee	Brad Dickinson, Chair
6-9 PM	NNC Standards Committee	Walter Karplus, Chair
6-9 PM	NNC Meetings Committee	Roy Nutter, Chair
6-9 PM	NNC Publications Committee	Toshio Fukuda, Chair

Monday, July 8, 1991

9 AM - 4PM	NNC AdCom*	Bob Marks, President
------------	------------	----------------------

◆ Officer Nominations

Nominations for Council Officers for 1992 should be sent to

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(cont.)

* We will recess for a light lunch. Hopefully, we will finish well before 4:00.

The four elected officers of the Council are President, Vice President, Treasurer and Secretary. All nominations must be seconded. According to our Constitution ...

'The voting members will be:

- a. Two representatives to be appointed by each Member Society.
- b. The President, Vice-President, Secretary and Treasurer
- c. The most recent available immediate past President of the Council.'

Only AdCom members are eligible to nominate and second nominations. Officer elections will be conducted by written ballot at our Seattle AdCom meeting.

◆ Hard Copy Submissions for AdCom

I will be mailing copies of material related to the Council AdCom and Standing Committee meetings to you in late June. Any material you wish included in this mailing (*e.g.* officer reports, standing committee reports and motions) must be in my hands by Thursday, June 20.

SOME UPDATES & INFORMATION ITEMS

◆ Standards Committee

As you know, the Council established the Standards Committee as a Standing Committee of the Council at our last AdCom. I'm delighted to inform you what Walter Karplus has accepted the Chair of this Committee. Queries concerning the Committee should be addressed to him at

Walter Karplus
3732 Boelter Hall
UCLA
Los Angeles, California 90024
(213) 825-2929
FAX (213) 825-2273
karplus@cs.ucla.edu

◆ New AdCom Members

Since we last met, the following AdCom members have been appointed by their member Societies.

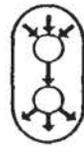
Circuits and Systems
Edgar Sanchez-Sinencio (1991-92)
Dept. of Electrical Engineering
Texas A&M University
College Station, Texas 77843
(409) 845 7498, FAX (409) 845 7161

Information Theory
Anthony Kuh (1991-92)
University of Hawaii at Manoa
Honolulu, HI 96822

TAB 2

No Minutes Submitted

TAB 3



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

NNC AdCom Members,

I have made the following appointments and hereby request the consent of the AdCom on their appointment.

Education Chair	Robert W. Newcomb
NNC Liaison to the IEEE Press	Stamatios Kartalopoulos
Video Tutorials Chair	Mohamed El-Sharkawi
NNC Representative to the TAB Newsletter Committee	Wes Snyder

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Marks II' with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

TAB 4



TO: IEEE Colleagues
FROM: H. Troy Nagle
DATE: June 13, 1991
SUBJECT: Assembly Petition Signatures

On the petition deadline (May 31, 1991), I submitted a total of 816 petition signatures to IEEE Headquarters. After verification by staff, only 771 survived. The required number to get the petition on the ballot was 812!!

I have asked the Executive Committee to allow me to continue to collect signatures until the end of 1991 to qualify the issue for the 1992 fall ballot. Therefore, I am asking volunteers who support this issue to help me continue the signature collection process for next year. If the ExeCom accepts my request, only about 50 more signatures are needed (I have about 15 of them already!). If the ExeCom denies my request, then signatures during the period June 1, 1991, to May 31, 1992, would be allowed for next year. In either case, the continued signature drive seems appropriate.

Attached please find a slightly revised petition form. I have added a diagram to back of the form to make the job of explaining the complex situation a bit easier.

Many thanks to everyone who helped collect signatures in March, April, and May. Please help me give it another try next year!!

H. Troy Nagle

Let the IEEE Members Decide!!

Background

At the annual November meeting of the IEEE Board of Directors, the Assembly (a body consisting of the ten Region Directors, ten Division Directors, President, Past President, and President-Elect) holds its annual meeting. At this annual meeting, the Assembly (a subset of the Board of Directors) elects the Vice Presidents for Technical Activities, Regional Activities, Educational Activities, Professional Activities, and Publications Activities, as well as the Treasurer, Secretary, and Director of Standards Activities for the next calendar year. See the diagram below for a view of the process. All eight of these Institute officers also serve as members of the Board of Directors. In other words, the members of the Board of Directors in the current year who are members of the Assembly are allowed to elect themselves to the next year's Board. This makes the Assembly election process very politically charged.

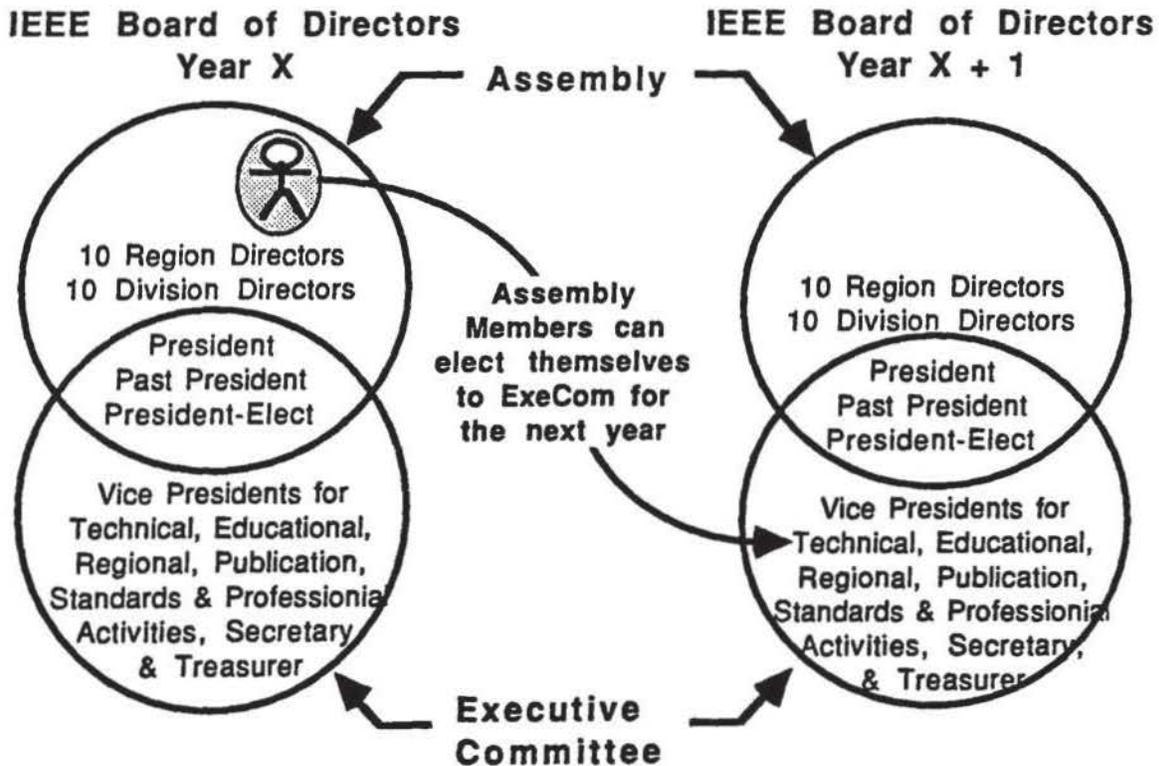
The Problem

Assembly elections of Institute officers are held in a closed, executive session. It is obvious that an election by this closed group cannot be completely free of bias if members of the group are election candidates. In order to create a "level playing field" for all candidates, this petition would force members of the Assembly who want to seek Institute officer positions to wait another year to "toss their hats into the ring." Although the members of the Assembly strive to be impartial in their voting patterns, this change would eliminate the appearance of bias that has plagued the Assembly in recent years.

Requested Action

Please circulate copies of this petition to IEEE voting members (Affiliates, students, and Associates can't vote) in your organization. Please return the signed petitions to:

H. Troy Nagle
Box 7911
Raleigh, NC 27695



(over)

TAB 5

1992 IEEE NNC Budget

Summary (see attachment 1 for mid-level breakdown)

Total Income	\$795,700
Total Expense	\$719,000
<u>Total Overall</u>	<u>\$076,700 (surplus)</u>

Notes:

1. The individual member subscription rate was increased from \$10.00 to \$12.00.
2. A newsletter was added this year. Est. cost \$21,300.
3. A standards committee has been established. Est. cost \$6,000.
4. Attachment 2 lists the 1990 Expenses by category
5. Attachment 3 lists the 1991 Expenses (to date) by category

Motion:

I move that the 1992 Neural Networks Council Budget be approved as stated.

IEEE Neural Networks Council Confidential Information

DESCRIPTION	ACCOUNT NUMBER	PRIOR YEAR BUDGETS AND ACTUALS					1990 BUDGET	1991 IEEE FORECAST	1991 S/C BUDGET
		-5	-4	-3	-2	-1			
<i>Income</i>	TOT TRANS & OTHER M B						35.2	35.2	140.5
	A					.1			
	TOT NON PERIODICAL B								2.0
	A					30.2			
TOT MEETINGS B								600.0	
A						190.9			
TOT OTHER B							40.0	40.0	53.2
A						.3			
TOTAL INCOME B							75.2	75.2	795.7
A						229.5			
<i>Expense</i>	TOT TRANS & OTHER M B						73.0	75.9	123.8
	A					.3			
	TOT MEETINGS B								560.0
	A								
	TOT HQTS.SERV.TO C B								.2
A						.2			
TOT COMM.ACT.EXT.CO B								30.0	
A						8.9			
TOT OTHER EXPENSES B								5.0	
A						2.6			
TOTAL EXPENSES B							73.0	75.9	719.0
A						12.0			
TOTAL OVERALL B							2.2	.7	76.7
A						217.5			

1992 Budget

Attachment 1

1990 Expenses

<u>Amount</u>	<u>Description</u>	<u>Payee</u>	<u>Date</u>
NNC ExCom Meetings			
88.86	Meeting Exp.	Marks	10/22/90
177.07	Telecon	Marks	11/26/90
71.18	Meeting Exp.	Marks	12/12/90
=====			
337.11			
NNC AdCom Meetings			
1,098.09	Travel	Tzanakou	2/7/90
1,226.42	Travel	Snyder	2/7/90
329.00	Travel	Marks	2/9/90
1,453.42	Travel	Nutter	6/26/90
655.83	Travel	Brown	7/1/90
1,673.74	Travel	Marks	7/1/90
1,581.04	Travel	Marks	7/13/90
765.00	Travel	Dickinson	9/10/90
=====			
8,782.54			
President			
59.64	Misc.	Marks	1/4/90
3,470.00	Secretarial	Marks (UW)	2/7/90
85.96	Misc.	Marks	2/12/90
398.00	Travel - TAB	Marks (UW)	2/12/90
76.56	Misc.	Marks	5/1/90
44.08	Misc.	Marks	6/8/90
159.57	Misc.	Marks	7/1/90
267.52	Misc.	Marks	6/29/90
70.35	Travel - TAB	Marks	7/13/90
4,111.00	Secretarial	Marks (UW)	7/17/90
63.65	Misc.	Marks	7/27/90
61.01	Misc.	Marks	9/24/90
153.20	Misc.	Marks	11/30/90
177.07	Misc.	Marks	12/4/90
1,047.48	Travel - TAB	Marks	12/12/90
=====			
10,245.09			
Vice-President			
297.12	Travel - TAB	Eberhart	2/7/90
108.43	Travel - NY	Eberhart	2/15/90
57.30	Misc.	Eberhart (IEEE)	3/31/90
3,300.00	Travel - China	Eberhart	11/27/90
=====			
3,762.85			
Secretary			
250.00	Secretarial	Tzanakou (Ashe)	2/12/90
=====			
250.00			
Treasurer			
14.00	Misc.	Simpson	2/14/90
=====			
14.00			

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Transactions Editor			
269.46	Misc.	Rauch	5/9/90
190.58	Misc.	Rauch	11/30/90
=====			
460.04			

Standing and AdHoc Committees
None

Conferences			
1,545.00	Audit-89	JG&D	5/13/90
5,332.00	Audit-89	JG&D	6/28/90
3,288.00	Audit-89	JG&D	7/26/90
20,000.00	Loan	IJCNN-91 Sing	10/22/90
=====			
30,165.00			

Sharing the Wealth			
20,000.00	Sharing Wealth	Founding Soc.	8/16/90
=====			
20,000.00			

IEEE Neural Networks Council Confidential Information

1991 Income/Expense

Amount	Description	Payee	Date
=====	=====	=====	=====
NNC ExCom Meetings			
271.83	Conf. Call	Marks	2/ 2/91
222.60	Conf. Call	Marks	4/ 1/91
115.58	Copy/Mail	Marks	5/ 1/91
355.90	Conf. Call	Marks	6/ 3/91
=====			
965.91			
NNC AdCom Meetings			
366.56	Printing	Marks	2/ 2/91
276.62	Travel	Kartalopoulos	2/ 2/91
627.09	Travel	Robinson	2/11/91
1,862.53	Travel	Marks	2/11/91
1,516.54	Travel	Karplus	2/11/91
72.00	Travel	Dickinson	2/20/91
22.50	Mail	Meeting Mgt.	2/20/91
331.81	Travel	Brown	2/20/91
202.43	Travel	Nutter	2/28/91
316.45	Travel	Simpson	3/22/91
=====			
5,594.53			
President			
127.67	Phone	Marks	1/ 2/91
46.19	Phone	Marks	2/ 2/91
1,562.64	Travel/Tokyo	Marks	2/ 5/91
894.75	Travel/TAB	Marks	2/20/91
102.52	Phone	Marks	2/28/91
79.11	Travel	Marks	4/ 1/91
113.50	Phone	Marks	4/ 1/91
702.24	Travel	Marks	4/23/91
6,397.00	Secretary	U of Wash.	5/ 1/91
59.90	Phone	Marks	5/ 7/91
132.79	Phone	Marks	5/29/91
=====			
10,218.31			
Vice-President			
None			
Secretary			
450.00	Secretary	Ashe	2/ 2/91
Treasurer			
49.14	Mail/Phone	Simpson	3/22/91
Transactions Editor			
134.99	Mail/Phone	Rauch	1/ 2/91
60.00	Mail	Rauch	2/11/91
=====			
194.99			
Standards Committee			
989.89	Travel	Tzanakou	2/18/91

IEEE Neural Networks Council Confidential Information

Education Committee 173.70	Travel	Haines	2/20/91
JCNN-89 DC 247.00	Audit	JG&D	5/13/91
IJCNN-90 San Diego 5,000.00 572.00 =====	Distribution Reimbursement	IEEE SD Section Liang	5/13/91 6/ 3/91
5,572.00			
IJCNN-91 Singapore 391.41 32.54 200.00 =====	Mailing List Mail Mailing	IEEE U of Wash. IEEE/Video	4/ 1/91 5/ 9/91 5/29/91
623.95			
FUZZ-IEEE 92 30,000.00 762.04 =====	Loan Travel	Conference Bezdek	3/ 1/91 2/20/91
30,762.04			
IJCNN-92 Baltimore 50,000.00	Loan	Conference	4/10/91
NNC Newsletter None			

EXPENSE

Reimbursable (loans)	80,000.00
Unreimbursable	25,841.46
Transactions*	33,000.00
IEEE Administration	4,300.00
	=====
Subtotal	143,141.46

* NNC Transactions

Through 5/21/91, there was \$59,900.00 income and \$92,900.00 expense, yielding a total expense of \$33,000.00. The original projection (MWR-91-001, January 26, 1991 AdCom, Tab 6) showed only a \$5,000.00 deficit. This will be monitored closely to determine the reason for the difference.

INCOME

Membership Fees	17,100.00
Interest Earned	14,400.00
Meetings (IJCNN-90)	38,300.00
Other	8,200.00
	=====
Subtotal	78,000.00

Potential Conference Income
 IJCNN-90 DC

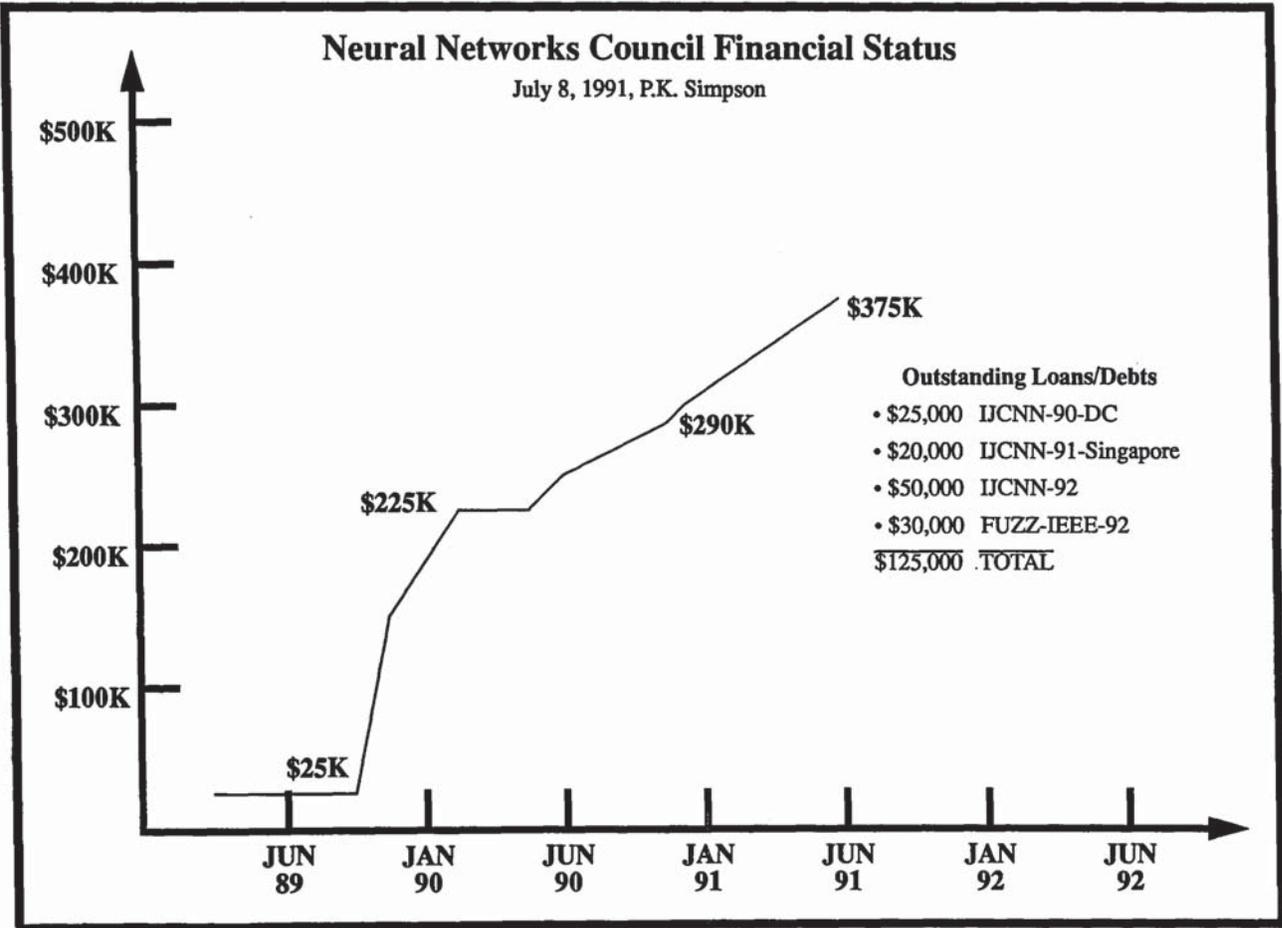
25,000.00 (?) Still waiting.

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IJCNN-91 Seattle	50,000.00	(?)	Guessing.
IJCNN-91 Sngpr	30,000.00	(?)	Still Guessing.
	=====		
	105,000.00		

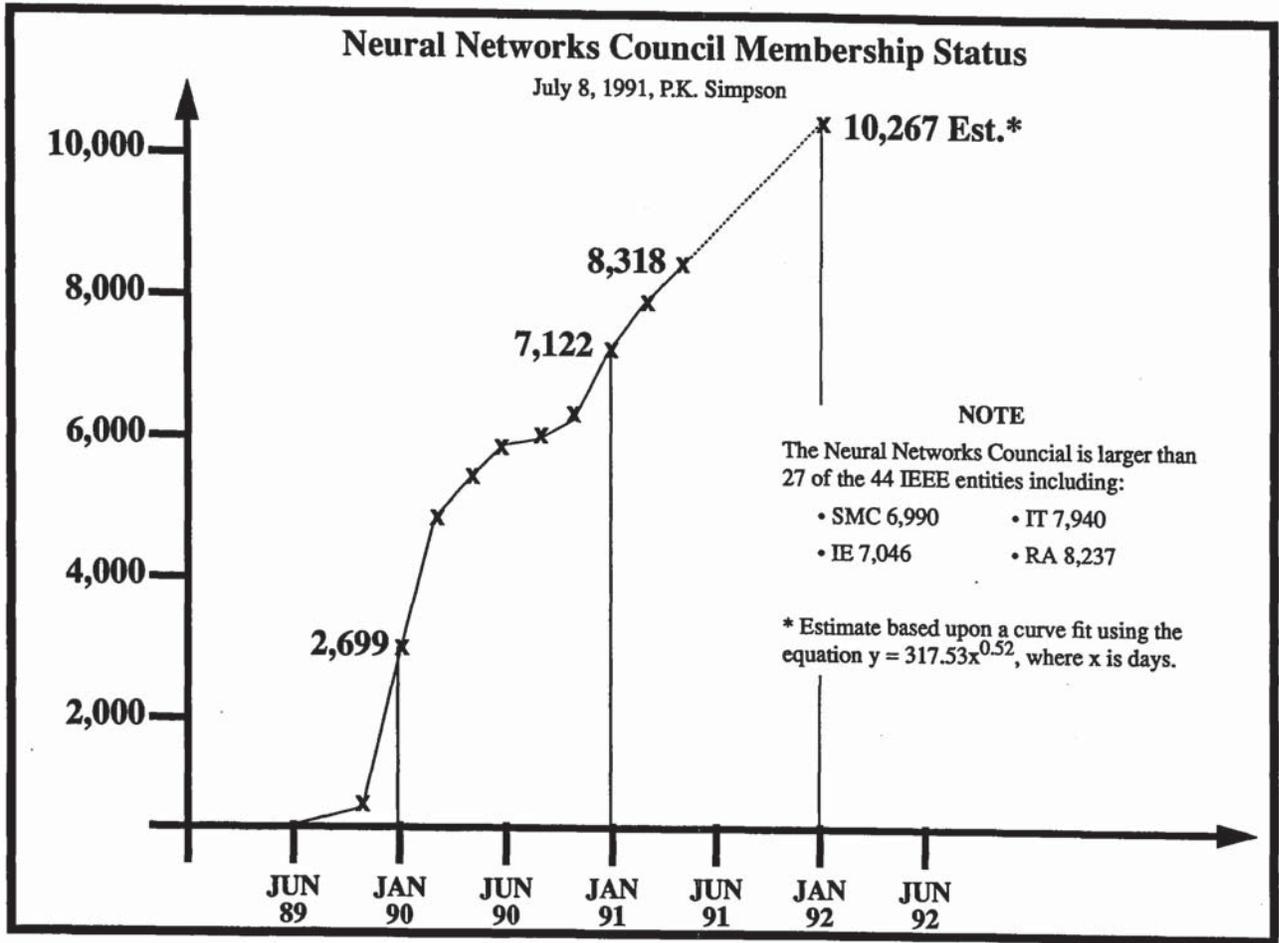
IEEE Neural Networks Council Confidential Information

IEEE Neural Networks Council Confidential Information



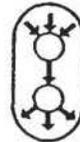
IEEE Neural Networks Council Confidential Information

IEEE Neural Networks Council



IEEE Neural Networks Council

TAB 6



NEURAL NETWORKS COUNCIL

Michael W. Roth
Editor-in-Chief,
IEEE Transactions on Neural Networks

PLEASE REPLY TO:
Johns Hopkins University
Applied Physics Laboratory
Laurel, MD 20723 USA
Tel: (301) 792-6543
FAX: (301) 953-1093
e-mail: mwr@aplcomm.jhuapl.edu

June 18, 1991

To: IEEE NNC ADCOM

Subject: TNN Editor's Report for July 8, 1991 ADCOM

Attachments: 1. TNN Papers Received 1990-1991
2. New TNN Technical Associate Editors
3. Revised 1990-1992 TNN Budget

There has been a significant increase in the number of manuscript submissions over last year (see Attachment 1). For example, there has been an over 200% increase in the number of papers for the period of January through May. Consequently, a number of new Technical Associate Editors were recruited (see Attachment 2). In addition, a significant increase in secretarial support is being organized.

Attachment 3 describes the revised figures for the 1990-1992 budget. Final adjustments to the 1990 figures (as noted in footnote 1) give a \$49.5K budget surplus to the final 1990 audited budget. Data for January through April 1991 indicates a significant increase in non-IEEE subscriptions. This is used to give a new projection for the 1992 Budget that results in an estimated deficit of only \$9K.

A handwritten signature in cursive script that reads "Michael W. Roth".

Michael W. Roth

Attachment 1 to:
June 18, 1991
TNN Editor's Report

TNN Papers Received 1990-1991

	1990		1991		
	Regular	Letters	Regular	Letters	Special ¹
Jan	10	4	29	2	
Feb	10	2	16	8	
Mar	20	3	28	4	
Apr	11	3	28	4	44
May	15	5	42	4	
Jun	14	6			
Jul	27	6			
Aug	30	5			
Sep	18	6			
Oct	13	8			
Nov	20	1			
Dec	30	5			
	_____	_____	_____	_____	_____
Total	218	54	144 ²	24 ²	44

¹ Special March 1992 hardware issue extended summaries.

² January through May.

Attachment 2 to:
June 18, 1991
TNN Editor's Report

New TNN Technical Associate Editors

Etienne Barnard
University of Pretoria
Pretoria, South Africa

Rama Chellappa
University of Maryland
College Park, MD

Gerard Dreyfus
ESPCI
Paris, France

Frank Fallside
University of Cambridge
Cambridge, United Kingdom

Jay Farrell
Draper Laboratory
Cambridge, MA

Dan Hammerstrom
Adaptive Solutions, Inc.
Beaverton, OR

Mohamad Hassoun¹
Wayne State University
Detroit, MI

Kurt Hornik
Technische Universität Wien
Vienna, Austria

Michael Lemmon²
University of Notre Dame
Notre Dame, IN

Eric Mjolsness
Yale University
New Haven, CT

Gerald Tesauro
IBM Research Center
Yorktown Heights, NY

David E. Van den Bout
North Carolina State University
Raleigh, NC

Raymond L. Watrous
Siemens Corporate Research
Princeton, NJ

Ronald J. Williams
Northeastern University
Boston, MA

-
1. M. Hassoun also serves as the Associate Editor for Book Reviews.
 2. M. Lemmon also serves as one of the Associate Editors for Letters.

Attachment 3 to
 June 18, 1991
 TNN Editor's Report

Revised 1990-1992 TNN Budget

Year	1990 Final ¹	1991 Budget	1991 to 4/30/91	1992 Budget
Pages	320	640	408	960
<u>Income</u>				
Voluntary Page Charges	7.3K	5.8K	3.8K	13K
Transactions Package (1000 copies)	39.2K	65.5K	35.4K	92K
Non-IEEE	13.4K	13.4K	26.0K	30K
IEEE not NNC	17.1K	17.1K	21.0K	21K
IEEE NNC	54.4K	53.7K	59.0K	60K
<u>INCOME TOTAL</u>	<u>131.4K</u>	<u>155.5K</u>	<u>145.2K</u>	<u>221K</u>
<u>EXPENSES</u>				
IEEE Publications ²	79.9K	151K	101.1K	225K
Editor Expenses	2.0K	10K		5K
<u>EXPENSE TOTAL</u>	<u>81.9K</u>	<u>161K</u>	<u>101.1K</u>	<u>230K</u>
<u>SURPLUS</u>	<u>\$49.5K</u>	<u>DEFICIT \$ 5.5K</u>	<u>\$44.1K</u>	<u>DEFICIT \$ 9K</u>

¹ Includes additions of \$7.3K voluntary page charges, \$4.6K Transactions Package, \$0.7K IEEE NNC income and \$2.7K Publications expense.

² Since December publication expenses are for the January issue, they are shifted to the following year budget.

TAB 7

SOCIETY NOMINATION DATA FOR IEEE FELLOWS NOMINATED IN 1990

SOCIETY AND NO.	A			B	C		D	E
	TOTALS			ELEC.	MEMBERSHIP-90		% MEMS	% FEL
	NOM	NOM	NOM	90	V MEM	FEL	NOMTD	CUMUL
	88	89	90					
01 AC, SP, SIG PROC.	11	9	12	8	12157	315	0.10%	2.59%
10 AERO & ELECT SYST SOC	11	9	16	9	7008	271	0.23%	3.87%
03 ANTEN & PROP SOC	24	26	24	14	7418	338	0.32%	4.56%
02 BRODCST TECH SOC	1	5	2	2	2125	88	0.09%	4.14%
04 CKTS & SYSTMS SOC	11	19	19	8	11330	346	0.17%	3.05%
19 COMMUNICATIONS SOC	49	39	27	16	25115	524	0.11%	2.09%
21 COMP, HYBR, & MFG TECH	3	4	3	3	3497	87	0.09%	2.49%
16 COMPUTER SOC	30	41	42	27	59164	702	0.07%	1.19%
08 CONSUMER ELECT SOC	0	4	3	2	4535	102	0.07%	2.25%
23 CONTROL SYST SOC	19	18	16	9	8490	236	0.19%	2.78%
32 DIELEC & ELEC INS SOC	7	6	4	2	1909	103	0.21%	5.40%
25 EDUCATION SOC	6	15	13	7	2859	285	0.45%	11.14%
27 ELECTRMAG COMPAT SOC	1	7	4	2	3399	120	0.12%	3.53%
15 ELECTRON DEVICES SOC	33	37	34	19	9164	432	0.37%	4.71%
14 ENGRG MANAGMT SOC	2	0	5	4	8354	114	0.06%	2.05%
18 ENGRG IN MEDIC & BIO SOC	6	4	10	9	5574	132	0.18%	2.37%
29 GEOSCI & REM SEN SOC	2	5	3	2	1958	69	0.15%	3.52%
13 IND ELECTRONICS SOC	2	1	2	2	5767	119	0.03%	2.06%
34 IND APPLICATIONS SOC	6	11	10	7	10013	219	0.10%	2.19%
12 INFO THEORY GROUP	6	8	4	3	3945	257	0.10%	6.51%
09 INSTRU & MEASMT SOC	7	7	6	4	4584	155	0.13%	3.38%
36 LASERS & OPT ELEC SOC	31	23	22	17	5140	240	0.43%	4.67%
33 MAGNETICS SOC	5	13	8	4	3163	145	0.25%	4.58%
17 MICROWV THRY & TEC SOC	21	20	17	12	8997	392	0.19%	4.36%
05 NUC & PLASMA SOC	10	5	5	4	2615	139	0.19%	5.32%
22 OCEANIC ENG SOC	1	0	2	2	1733	88	0.12%	5.01%
35 POWER ELECTRONICS SOC	2	2	5	2	3943	64	0.13%	1.62%
31 POWER ENGINEERING SOC	56	57	57	24	21826	624	0.26%	2.86%
26 PROF COMMUNICATIONS SOC	0	0	0	0	2036	25	---	1.08%
07 RELIABILITY SOC	2	3	3	1	3728	83	0.08%	2.23%
24 ROBOT & AUTOMATN SOC	0	1	6	2	4861	97	0.12%	2.00%
30 SOCIAL IMP OF TECH SOC	1	1	1	1	2262	102	0.04%	4.51%
SOLID STATE CKTS COU	7	7	4	2				
28 SYSTMS, MA & CYBER SOC	7	4	2	2	3683	127	0.05%	3.45%
20 ULTRASONICS, FERRODEL--	11	8	9	5	1815	97	0.50%	5.34%
06 VEHICULAR TECH	2	3	2	0	2855	91	0.07%	3.19%
TOTALS	392	422	403					

A - NUMBER OF NOMINEES

B - NUMBER ELECTED FROM 1990 NOMINEES

C - SOCIETY MEMBERSHIP: VOTING MEMBERS AND FELLOWS

D - PERCENTAGE OF SOCIETY VOTING MEMBERS THAT WERE NOMINATED IN 1990

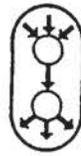
E - PERCENTAGE OF SOCIETY VOTING MEMBERS WHO ARE FELLOWS

4/7/91

TAB 8



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

2-4-91

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Dr. Werbos,

I have been directed by the AdCom of the *IEEE Neural Networks Council (NNC)* to announce to you cancellation of the Agreement between the Council and the *International Neural Network Society (INNS)* immediately after the 1992 Baltimore IJCNN. I hereby do so. This cancellation is made in accordance with Article 14 of the Agreement between our two organizations which states, in part,

This agreement can be canceled upon written notification of either organization to the President of the other organization. The President of the INNS and the President of the NNC shall have the responsibility of settling any unfinished business already initiated as a result of this document. In the event of dissolution, each society shall honor its previously approved budgets. Upon cancellation, both organizations agree to not use the conference name "International Joint Conference on Neural Networks" or the initials "IJCNN." The NNC reserves the exclusive right to use the conference name "International Conference on Neural Networks". The INNS reserves the exclusive right to use the conference name "INNS Annual Meeting."

The IJCNN's, as you know, are currently the largest and most successful conferences on neural networks in the world. Nevertheless, the Council feels that due, in part, to our broadening focus of interests, a dissolution of the Agreement is required. This dissolution, however, still leaves open the possibility that the NNC and INNS can work together on other projects, including future jointly sponsored IJCNN's.

I will be contacting you shortly to arrange procedures for the settling of unfinished business already initiated as a result of the Agreement. The Council intends to remain flexible in the process of these negotiations.

Sincerely,



Robert J. Marks II, President
IEEE Council on Neural Networks

cc: IEEE NNC AdCom
Laura Jobmann, IEEE Conference Services

IEEE NNC Meetings Committee
Roy S. Nutter, IOC Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Dissolution Agreement

Whereas the societies named the IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) have entered into an Agreement concerning the joint sponsoring of the International Joint Conferences on Neural Networks series and, whereas, the NNC has chosen to dissolve that Agreement, and, whereas, the Presidents of the INNS and the NNC have been empowered by their organizations to resolve all unfinished business initiated as a result of the Agreement, the NNC and INNS do hereby agree as follows:

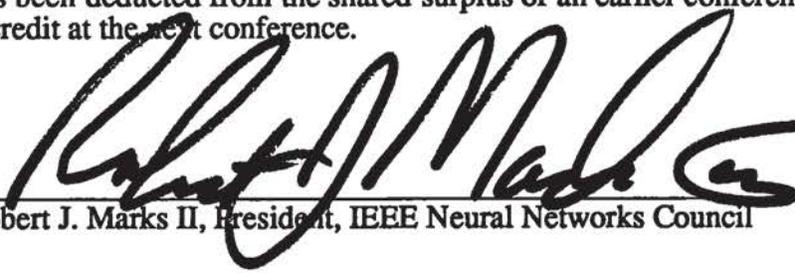
1. The Agreement (including Bylaws) will remain in effect through May 1, 1994, except as specifically amended by this Dissolution Agreement. This Dissolution Agreement is binding on both societies and may be altered only in writing with authorized joint signatures by both the President of INNS and the President of the NNC.

2. The following schedule of jointly sponsored meetings and corresponding Conference Chairs is hereby approved.

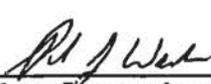
IJCNN Seattle	summer, '91	Prof. D. Rumelhart, Chair
IJCNN Singapore	autumn, '91	Prof. T.S. Low, Chair
IJCNN Baltimore	summer, '92	Prof. C. Lau, Chair
IJCNN Beijing	autumn, '92	Prof. Zong Sha, Chair
IJCNN Portland	summer, '93	Prof. G. Lendaris, Chair
IJCNN Japan	autumn, '93	Prof. S. Amari (Organizing Comm. Chair) Prof. T. Fukuda, (Steering Comm. Chair)

Neither the INNS nor the NNC will be involved, at any level, in any other major conference on artificial neural networks through May 1, 1994. A major conference is any meeting that has an attendance of no more than 400 participants at the conference sight. Commitments of involvement with major conferences by either Society made prior to February 1, 1991 are specifically excluded if the commitment(s) were made in accordance with the Agreement.

3. The NNC and INNS will share equally from the surplus from all IJCNN's and will equally share in the payment of any deficit originating from an IJCNN. No portion of the surplus will be set aside by either the NNC or the INNS as seed money for future conferences. If seed money has been deducted from the shared surplus of an earlier conference, the amount will be treated as a credit at the next conference.


Robert J. Marks II, President, IEEE Neural Networks Council

5/12/91


Paul J. Werbos, President, International Neural Networks Society

TAB 9

Microsystems Laboratory
Electrical Engineering Department
University of Maryland
College Park, Maryland 20742
Phone: (301) 405-3662
email: newcomb@sparcee.eng.umd.edu
fax: (301) 314-9281

April 16, 1991

Mr. Irving Engelson
IEEE Service Center
445 Hoes Lane
P. O. Box 1331
Piscataway, NJ 08855-1331

Dear Mr. Engelson:

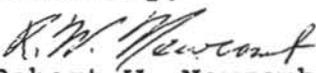
At its last meeting the Ad Com of the IEEE Neural Network Council (NNC) voted to provide a \$5,000 grant to the International Student Society for Neural Networks (ISSNET) to assist student attendees who in turn lend considerable assistance to the International Joint Conference on Neural Networks, sponsored by the Council. From Dr. Patrick K. Simpson, the NNC Treasurer, I have just learned that before the money can be awarded to ISSNET it is necessary to have this grant approved by the IEEE Board of Directors. Consequently, as the Chair of the NNC Committee on Student Interface, I request the necessary approval.

The primary use planned for this money by ISSNET is for student registrations (with 10% set aside for ISSNET administration). It should be noted that the NNC AdCom was unanimous in their endorsement of this grant since it is the desire of the NNC to involve students in NNC activities to the extent possible. Thus, I highly recommend the approval by the IEEE Board of Directors.

I hope that approval will be forthcoming in the next two weeks since the students need to have knowledge of the availability of the money for the meeting in Seattle. If so, and as per the letter of Dr. Simpson of March 1, 1991, to Marilyn Prusan, Finance Administrator for IEEE Technical Activities, please have a check sent to Ms. Karen G. Haines who is the student administering the funds for ISSNET. If it is not possible to get the Board's approval please let me, and Ms. Haines, know immediately so that timely adjustments can be made.

Thank you for your prompt consideration.

Sincerely,


Robert W. Newcomb
Professor

RN/lc

cc: Dr. Patrick K. Simpson, Treasurer NNC
Professor Robert J. Marks, II, President NNC
Ms. Karen G. Haines

Department of Electrical and Computer Engineering
Carnegie Mellon University
Pittsburgh, PA 15213



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-21-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

NNC Education Committee

Robert W. Newcomb, Chair
Mirosystems Laboratory
Electrical Engineering Dept.
University of Maryland
College Park, MD

Karen Haines, President
ISSNNet
Dept. of ECE
Carnegie-Mellon University
Pittsburg, PA 15213

A total of \$5000 was approved at the last Council AdCom for support of student expenses to attend Council sponsored conferences. The following procedure should be followed for reimbursement of these expenses.

- ◆ Each student requesting reimbursement should submit a completed IEEE travel reimbursement form, with original receipts to the *NNC Education Committee*. These forms are available from

Marilyn J. Prusan, Finance Administrator
Technical Activities Department, IEEE
445 Hoes Lane, P.O. Box 1331
Piscataway, NJ 08855-1331
FAX: (201) 562-1571
(201) 562-3861

Ms. Prusan is responsible at IEEE for generating the travel reimbursement checks.

- ◆ The completed forms should then be sent to me for approval for reimbursement. The Committee should indicate the maximum amount to be reimbursed for each student. I will then forward the forms to Patrick K. Simpson, the Council Treasurer. Reimbursement checks will be sent directly to the students.
- ◆ My preference is that all the forms be submitted at once with a single of recommendation cover letter.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Patrick K. Simpson, NNC Treasurer
Russ Eberhart, NNC Vice President
Evangelia Tzanakou, NNC Secretary
Irv Engelson, IEEE TAB
Marilyn Prusan, IEEE

From khaines@galileo.ECE.CMU.EDU Thu Jun 6 09:21:01 1991
Received: from GALILEO.ECE.CMU.EDU by milton.u.washington.edu
(5.61/UW-NDC Revision: 2.1) id AA29603; Thu, 6 Jun 91 09:20:53 -0700
Received: by galileo.ECE.CMU.EDU (5.54-ECE2/5.17)
id AA08688; Thu, 6 Jun 91 12:20:40 EDT
Date: Thu, 6 Jun 91 12:20:40 EDT
From: Karen Haines <khaines@galileo.ece.cmu.edu>
Message-Id: <9106061620.AA08688@galileo.ECE.CMU.EDU>
To: I.ENGELSON.ieee.org@galileo.ECE.CMU.EDU(a), gaudiano@park.bu.edu,
marks@u.washington.edu, newcomb@eng.umd.edu
Subject: IEEE Funds
Status: RO

Hi Professor Newcomb,

As the conferences and the IEEE meeting in the middle of this month
nears, there are some issues that I would like to go over. The first
of these is the distribution of the funds from IEEE NNC. There are several
points that need to be reconsidered. The current method, as decided by IEEE,
is unacceptable to ISSNNet. It requires a lot of work on the part
of ISSNNet that we feel is unnecessary. We feel that we have established
ourselves as a reputable organization and should be given the grant
to distribute as originally proposed. We are willing to send IEEE an
itemized list of students who received funding (after distribution), but
the request to have students fill out IEEE travel forms,
submit the travel forms to IEEE, then have IEEE send us the money, then
have us distribute the funds to the students is unnecessary
and time consuming. In addition, since the funds will be processed through
our account, we need to retain the original receipts. If IEEE is adamant
about the students filling out the travel forms and turning in original
receipts, then we insist that IEEE refund the students directly. This
avoids our need to retain the original receipts since
no money will be processed through our account.
The items below provide a synopsis of this issue.

I would like to attend the meeting that IEEE will have in the middle of the
month to represent ISSNNet. Is this possible? Please let me know
what your feelings are on this issue?

Thank you,
Karen Haines

cc: Paolo Gaudiano, Bob Marks, Irv Engelson

ITEM 1:

From: Dr. Irving Engelson, Staff Director for Technical activities at IEEE.
Dr. Engelson requested the following information about ISSNNet
before approval of the recommended \$5000.- grant to ISSNNet from our IEEE
Neural Networks Council.

What kind corporation are you, if any. I was told that you are a 501 C(3)
corporation. If so,

- (1) In what state are you incorporated ?
 - (2) When were you incorporated ?
 - (3) What is your corporate address ?
 - (4) Are the officers students and/or is there faculty involvement ?
 - (5) How large is your membership, and is it for undergrads, grads or both ?
 - (6) Since you are International, what is the international scope of your activities e.g., members/chapter in how many countries ?
 - (7) How do you assist the Conference ?
 - (8) How will you use the funds to assist students ? i.e., selection criteria and use of funds ?
 - (9) Who is your President and do you have a professional staff ?
 - (10) If the funds are approved (it needs approval of our executive committee, in addition to my action), where and to whom should it be mailed.
- I'll also appreciate a copy of your bylaws, if available.

All information was sent to Dr. Engelson. However no reply has been received stating that all information sent was sufficient.

ITEM 2:

The grant is to assist student attendees who lend assistance to the International Joint Conference on Neural Networks.

For the conferences this year, this assumption is incorrect. The grant given to our organization was intended to pay for student registration to students presenting 1) oral papers or 2) poster papers at the IJCNN conferences in Seattle and Singapore. It was also decided that there was no requirement for IEEE or ISSNNet membership. The intent was to foster goodwill among the students and IEEE. Neither conferences (Seattle or Singapore) have requested ISSNNet to coordinate the volunteers. I have a letter from Pat Simpson authorizing the grant to our organization and it specifically states these funds will be used for student registration. If IEEE has changed their minds, then this needs to be discussed.

ITEM 3:

Irv Engelson suggested the following procedure for reimbursing the money.

"Students support would be recommended by the student group. The student would fill out standard IEEE travel forms. Upon your recommendation, I would approve reimbursement of students up to their travel & lodging expenses not to exceed \$5k total. This is a procedure we can put into effect immediately without an okay from the Board of Directors. The reimbursement procedure is consistent with the motion okayed by AdCom. It is important that the students submit ORIGINAL receipts, including the original copy of the airline ticket and hotel bills. You should have our reimbursement manual with all the rules e.g., only coach travel etc."

"Please be reminded that if the direct reimbursement to the student is not

acceptable, we will need info re the student organization for submission to the ExCom. "

The above procedure is not acceptable to ISSNNet. Assuming that we now reconsider the grant given to our organization to include expenses other than registration (the original intent of the grant), the maximum per student will be about \$250.00. This is 20 forms to fill out. In addition we are required to submit original receipts that we need to retain for tax purposes, given that we have to redistribute the \$ to the students. The following methods of distribution are suggested.

1) We can have the students fill out the forms and turn in the receipts are requested, but IEEE MUST PROVIDE DIRECT REIMBURSEMENT TO THE STUDENTS.

Since effectively no funds will be processed through our account, it is then not necessary for ISSNNet to retain the original receipts.

2) Provide the grant as originally requested to ISSNNet. Since ISSNNet has given the above information as requested as well as complying with all requests about information of our organization, we feel we have proven ourselves to be a respectable and responsible organization. Such requests as outlined in the procedure above assume the contrary.

ISSNNet prefers the second method of distribution of funds, but is willing to accept the first method as well.

TAB 10



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

April 3, 1991

Dr. Robert Marks
University of Washington
Department of Electrical Engineering
Ft-10
Seattle, WA 98195

Dear Dr. Marks:

I appreciate all the time and energy you spent this morning discussing the possibility of a mutual arrangement between the Educational Activities Board and the Neural Networks Council. Through cooperative arrangements like this we are able to provide a much larger member service to individual societies/councils as well as the greater IEEE membership. Your expertise and advice regarding the technical agenda will certainly enhance the educational value of the programs.

Enclosed are copies of our video guidelines and a sample contract which we have used in similar situations with other societies. I look forward to working with you and the council to produce video tutorials and emerging technology tapes on neural networks and fuzzy logic.

Please let me know how we can help to get things going.

Sincerely yours,

A handwritten signature in cursive script, appearing to read 'Peter Wiesner'.

Peter Wiesner
Manager
Individual Learning Activities

Attachments

cc: B. Babeu Murray
R. A. Stampfl

neurnets.1

VIDEOS

Spread Spectrum Communications

Fundamentals and Applications
Presented by Glenn E. Prescott, University of Kansas, Lawrence
Product No: HV0121-4
Recording Date: May 1989
List Price: \$135.95
Member Price: \$65.95
Run Time: 3 Hours/2 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Series**International Conference on Neural Networks/88**

The following thirteen video tutorials, which were recorded at the ICNN/88, are available at reduced prices as a complete set of 13 programs or a smaller set of any 6 tapes, or may be purchased individually.

Neural Networks/88 Package I (All 13 Programs)

Product No: HV0100-8
Recording Date: July 1988
List Price: \$1269.50
Member Price: \$749.50
Run Time: 26 Hours/13 VHS Tapes
Standard: NTSC, PAL

Neural Networks/88 Package II (Any 6 Programs)

Product No: HV0099-2
Recording Date: July 1988
List Price: \$629.95
Member Price: \$329.95
Run Time: 12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Neurobiological Review 1988

Presented by Michael A. Arbib, University of Southern California
Product No: HV0101-6
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Resonance

Presented by Gail A. Carpenter, Northeastern University and Boston University
Product No: HV0102-4
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Pattern Recognition Review

Presented by David Casasent, Carnegie-Mellon University
Product No: HV0103-2
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1988

Presented by H.J. Caulfield, University of Alabama
Product No: HV0104-0
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Vision

Presented by John Daugman, Harvard University Division of Applied Science
Product No: HV0105-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Competitive and Cooperative Learning Systems

Presented by Stephen Grossberg, Boston University
Product No: HV0106-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurocomputing Applications

Presented by Robert Hecht-Nielsen, University of California
Product No: HV0107-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Dynamical Systems Review

Presented by Morris Hirsch, University of California, Berkeley
Product No: HV0108-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Self-Organizing Feature Maps

Presented by Teuvo Kohonen, Helsinki University of Technology
Product No: HV0109-9
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Associative Memory

Presented by Bart Kosko, University of Southern California
Product No: HV0110-7
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Parallel Distributed Processing

Presented by David Rumelhart, Stanford University
Product No: HV0111-5
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Speech

Presented by Terrence J. Sejnowski, Johns Hopkins University
Product No: HV0112-3
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Neural Networks

Presented by Bernard Widrow, Stanford University
Product No: HV0113-1
Recording Date: July 1988
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks/89 Series**International Joint Conference on Neural Networks**

The following eight video tutorials, which were recorded at the 1989 IEEE/INNS Joint Conference in Washington, DC, are available as a package at reduced prices, or may be purchased individually.

VIDEOS

Neural Networks/89 Package (All 8 Programs)

Product No: HV0123-0
Recording Date: June 1989
List Price: \$849.95
Member Price: \$449.95
Run Time: 16 Hours/8 VHS Tapes
Standard: NTSC, PAL

Adaptive Pattern Recognition

Presented by Leon Cooper, Brown University

Product No: HV0124-8
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neurobiology Review 1989

Presented by Walter J. Freeman, University of California, Berkeley

Product No: HV0125-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Adaptive Sensory-Motor Control

Presented by Stephen Grossberg, Boston University

Product No: HV0126-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Neural Networks: Algorithms and Microhardware

Presented by John J. Hopfield, California Institute of Technology and AT&T Bell Laboratories

Product No: HV0127-1
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

VLSI Technology and Neural Network Chips

Presented by Lawrence D. Jackel, AT&T Bell Laboratories

Product No: HV0128-0
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Optical Neurocomputers 1989

Presented by Demetri Psaltis, California Institute of Technology

Product No: HV0129-7
Recording Date: June, 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Starting a Hi-Tech Company

Presented by Peter W. Wallace, Hambrecht & Quist

Product No: HV0130-5
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Reinforcement Learning

Presented by Ronald J. Williams, College of Computer Science, Northeastern University

Product No: HV0131-3
Recording Date: June 1989
List Price: \$109.95
Member Price: \$59.95
Run Time: 2 Hours/1 VHS Tape
Standard: NTSC, PAL

Power System Fault Calculation Series

Developed by Charles W. Brice III, University of South Carolina

The three parts of this series are divided into 10 to 20 minute video segments, followed by study guide/workbook practice problems.

Three-Phase Short Circuits

Product No: HV0069-5
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 115 Min/1 VHS Tape
Standard: NTSC, PAL

Unsymmetrical Short Circuits

Product No: HV0070-3
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

Applications to Industrial Power**Distribution Systems**

Product No: HV0071-1
Recording Date: 1987
List Price: \$109.95
Member Price: \$59.95
Run Time: 103 Min/1 VHS Tape
Standard: NTSC, PAL

NEW...**Robotics/90 Series**

The following three video tutorials on robotics are available as a package at a reduced price, or may be purchased individually.

Robotics/90 Package (All 3 Programs)

Product No: HV0159-4
Recording Date: May 1990
List Price: \$315.95
Member Price: \$165.95
Run Time: 9-12 Hours/6 VHS Tapes
Standard: NTSC, PAL

Modeling and Control of Automated Manufacturing Systems

Presented by Alan Desrochers, Rensselaer Polytechnic Institute

New researchers as well as practicing engineers will find this video tutorial to be of great value. It gives a summary of the significant research in automation and flexible manufacturing. It provides the newest mathematical control methods, and explains their potential for changing the operation of modern manufacturing systems. In addition to discussing modeling methods, control issues, manufacturing software, and performance analysis of transfer lines, the tutorial emphasizes the Petri net approach.

Product No: HV0160-2
Recording Date: May 1990
List Price: \$135.95
Member Price: \$65.95
Run Time: 3-4 Hours/2 VHS Tapes
Standard: NTSC, PAL

Networking for Computer-Integrated Manufacturing

Presented by A. Ray, Pennsylvania State University; K.H. Murali, Industrial Technology Institute; and Arun Ayyagari, Boeing Electronics Division

This video tutorial provides an in-depth look at the fundamentals of networking for computer-integrated manufacturing. Emphasizing intelligent manufacturing and systems integration, the program covers several components of network analysis and design. Topics include basic concepts and architectures of CIM networking, introduction to manufacturing automation protocol (MAP) and technical and office protocols (TOP), management and control of CIM net-



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

May 6, 1991

Dr. Mohamed El-Sharkawi
Dept. of Electrical Engineering
Mail Stop FT-10
University of Washington
Seattle, WA 98195

Dear Dr. El-Sharkawi,

This is to follow-up our conversation regarding our working with the Neural Nets Council in videotaping video tutorial presenters in conjunction with upcoming meetings, such as IJCCN.

We would like to videotape a selected number of presenters under studio conditions, such as those available at the University of Washington. This would involve an agreement between IEEE Educational Activities Board (EAB) and the Neural Nets Council. In this agreement, we would include royalty arrangements with the presenters as well as the Council.

Our department would also coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the production entity. We would also coordinate the pre-production work of the presenters, such as the preparation of graphics, in accordance with the enclosed guidelines.

The Neural Nets Council would assume responsibility over the quality of the content of the videos. Other reviewers, volunteers from the Educational Activities Board, would review tapes for instructional design and video production quality, under the supervision of Dr. Deter Gehmlich (University of Utah).

Based on previous sales records (1989-91), we anticipate that it will be possible to sell on the average of 75 copies per individual program per year, over a two year period, after which the tapes would become obsolete. What we propose, then, is the following business arrangement, assuming we will sell 150 over a two-year period, based on an analysis of our 1990 sales data indicating that the average number of tapes/title sold from our 1988 series was 45, and from our 1989 series was 105.

Assuming 150 copies sold, we anticipate the average cost of a single program to include:

\$ 3,500 TV recording and editing
500 honorarium for presenter
600 presenter royalty (\$4/program)
800 accompanying print materials
1,500 promotion
1,725 producer fee

\$ 8,625 production (subtotal)

3,750 duplication, 150 release copies (\$25 each)
4,500 salaries and overhead, distribution
\$16,875 Total project cost

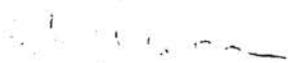
Assuming we will sell 150 titles (our set break-even point), EAD will charge 99.00/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the following royalty schedule, enabling the Council to recover costs when 150 copies are sold and to generate surplus revenue thereafter. What follows are some options:

Amount invested by Neural Nets Council per title	Royalties	Royalties
	(first 150 copies sold)	(each additional copy)
\$375	\$2.50/copy	\$2.00/copy
\$750	\$5.00/copy	\$4.00/copy
\$1,500	\$10.00/copy	\$8.00/copy
\$3,000	\$20.00/copy	\$16.00/copy

As I mentioned to you, we have contractual arrangements with other societies (Microwave Theory and Techniques, Robotics, Signal Processing, etc.) to produce video tutorials. For example, the MTT Society has invested \$17,500 annually, to be matched by Educational Activities, for the purpose of recording MTT distinguished lecturers. The enclosed "straw man" is similar to those used in our other society agreements.

I hope that this letter is useful in getting things going with the ad hoc neural network video committee. Please don't hesitate to contact me for additional information.

Sincerely,


Peter Wiesner, Ed.D.

cc: ~~Robert Marks~~
Rudi Stampfl



IEEE

EDUCATIONAL ACTIVITIES DEPARTMENT

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. TEL. (201) 981-0060 TELEX 833233 FAX (201) 981-1686

May 30, 1991

Dr. Mohamed El-Sharkawi
Dept. of Electrical Engineering
Mail Stop FT-10
Universit of Washington
Seattle, WA 98195

Dear Dr. El-Sharkawi,

This letter includes your suggested revisions concerning our working with IJCCN to produce videotapes by pioneers in the field. We spoke about the possibility of producing several several programs on relatively broad topics in neural networks and fuzzy logic, up to four programs in each area. The Neural Networks Council would line up the presenters and the IEEE Educational Activities would make arrangements for videotaping.

We would like to videotape a selected number of presenters under studio conditions, such as those available at the University of Washington. This would involve an agreement between IEEE Educational Activities Board (EAB) and the Neural Nets Council. In this agreement, we would specify remuneration for the presenters as well as royalty arrangements for the Neural Nets Council.

Our department would coordinate the production with a local production unit (university or private company) capable of delivering a professional product. This would involve a contract between IEEE Educational Activities and the produciton entity. We would also coordinate the pre-production work of the presenters, such as the preparation of graphics, in accordance with the enclosed guidelines.

The Neural Nets Council would assume responsibility over the quality of the content of the videos. Other reviewers, volunteers from the Educational Activities Board, would review tapes for instructional design and video production quality, under the supervision of Dr. Deter Gehmlich (University of Utah).

Based on previous sales records (1989-91), we anticipate that it will be possible to sell on the average of 75 copies per individual program per year, over a two year period, after which the tapes would become obsolete. What we propose, then, is the following business arrangement, assuming we will sell 150 over a two-year period, based on an analysis of our 1990 sales data indicating that the average number of tapes/title sold from our 1988 series was 45, and from our 1989 series was 105.

Assuming 150 copies sold, we anticipate the average cost of a single program to include:

\$ 3,500 TV recording and editing
1,500 honorarium for presenter
800 accompanying print materials
1,500 promotion
1,725 producer fee

\$ 9,625 production (subtotal)

3,750 duplication, 150 release copies (\$25 each)
4,500 salaries and overhead, distribution

\$16,275 Total project cost

Assuming we will sell 150 titles (our set break-even point), EAD will charge \$89.95/ member and \$119.00 for non-member (most sales are to members), and thereby recover our costs. Given these projections, we invite the Neural Nets Council to invest funds in accordance with the the following royalty schedule, enabling the Council to recover costs when 150 copies are sold and to generate surplus revenue thereafter. What follows are some options:

	Royalties (first 150 copies sold)	Royalties (each additional copy)
Amount invested by Neural Nets Council per title		
\$375	\$2.50/copy	\$2.00/copy
\$750	\$5.00/copy	\$4.00/copy
\$1,500	\$10.00/copy	\$8.00/copy
\$3,000	\$20.00/copy	\$16.00/copy

As I mentioned to you, we have contractual arrangements with other societies (Microwave Theory and Techniques, Robotics, Signal Processing, etc.) to produce video tutorials. For example, the MTT Society has invested \$17,500 annually, to be matched by Educational Activities, for the purpose of recording MTT distinguished lecturers. The enclosed "straw man" is similar to those used in our other society agreements.

The agreement terms proposed here would enable the Neural Nets Council to recover its investment upon 150 tapes sold. The Council could accelerate its investment by taking an active part in promoting and selling tapes at its conferences, receiving a 10% rebate (in addition to royalties) for any tapes sold at its conferences or through its newsletters. Ideally, the Neural Nets Council would include an offer to members in its conference application package.

I hope that this letter is useful in getting things going with the Neural Nets Council. Once you have their approval regarding the terms of the agreement, we would then develop a formal letter of agreement (based on the one I sent you earlier) for signature.

Sincerely,



Peter Wiesner, Ed.D.

cc: Robert Marks
Rudi Stampfl

TAB 11

Field of Interest

Background: The area of interest of the Council has evolved significantly over the last few years. The Field of interest statement, appearing in our Constitution, must be approved by a two thirds vote of AdCom before forwarding to TAB. TAB has recently approved the attached procedure for granting approval.

Motion: The following revision of the field of interest of the Neural Networks Council be forwarded to TAB for approval.

ARTICLE I

NAME AND PURPOSE

Section 1. The name of the organization constituted herein shall be the IEEE Council on Neural Networks.

Section 2. The purpose of the Council is to advance and coordinate work in the field of Neural Networks carried out throughout the IEEE and as such is exclusively scientific, literary and educational in character. In furtherance of the foregoing, the Council may publish appropriate periodicals, sponsor IEEE Neural Networks related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

ARTICLE II

FIELD OF INTEREST

Section 1. The field of interest of the Council and its activities and programs shall consist of aspects of the theory, design, and applications of neural networks that range from software to hardware. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Proposed revision:

Section 1. The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational ^{systems} ~~parademes~~, ^{involving} ~~including~~ neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these ~~disciplines~~ ^{paradigms} are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Proposed Change of A Society's Field of Interest

Proposed Motion

Proposed change of a Society's field of interest should follow these three steps:

1. To initiate a change in its field of interest, a Society files a notice of proposed change with the TAB Secretariat. This notice is then sent to all other Society/Council Presidents with a request to notify the proposing Society/Council President of any comments.
2. The proposed change should then be communicated as an action item at a Society Presidents' Forum; if not approved by a majority

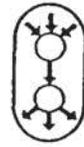
of Society/Council Presidents, an Adhoc Committee of interested and affected Society/Council Presidents shall be appointed by the Forum Chairman (who will also act as the Chairman of the Adhoc Committee). Following due deliberations and input from Society AdComs, the Adhoc Committee will attempt to arrive at a mutually acceptable statement of the proposed change; the Committee must report back to the Society Presidents' Forum at the next subsequent meeting of the Forum with either an appropriate motion or a recommendation that an Adhoc Arbitration Committee--chaired by the Forum Chairman and consisting of five Presidents from disinterested societies and who are not members of the

affected Society/Councils--be formed. Again, this Committee must report back to the Society Presidents' Forum at the next subsequent meeting of the Forum with its recommendation.

3. Based on the approval of the majority of the Society Presidents, the proposed change will be introduced to TAB as a Forum motion and voted on accordingly. (If the proposed change is endorsed by TAB, it is referred to the IEEE Executive Committee for final approval.)

TIEN.01

TAB 12



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Proposed meetings:

AdCom

Saturday, March 7, 1992 at San Diego Town & Country FUZZ-IEEE.

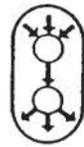
ExCom

Monday, Nov. 18, 1991 at Singapore Westin, Singapore IJCNN.

A handwritten signature in black ink, appearing to read 'R. J. Marks II' with a long, sweeping flourish extending to the right.

Robert J. Marks II, President
IEEE Neural Networks Council

TAB 13



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

5-10-91

James C. Bezdek, Chair
Nystul Professor
The University of West Florida
Computer Science
11000 University Parkway
Pensacola, Florida 32514-5750
(904) 474 2784
FAX 904 474 2096
jbezdek@uwf.bitnet

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Lotfi Zadeh
Department of Electrical Eng.
University of CA, Berkeley
Berkeley, CA 94720
dianel@janus.berkeley.edu
415 642 4959
415 526 2569 (H)

Prof. Didier Dubois
Langages et Sys. Informatiques
Universite Paul Sabatier
118 Route de Narbonne FRANCE
31062 Toulouse Cedex, FRANCE
Tel (33) 61556331
Fax (33) 61556239

Prof. Kaoru Hirota
Dept. of Ind. and Control Engr.
Hosei University
3-7-2 Kajino-Cho
Koganei, Tokyo 184, JAPAN

Michio Sugeno
Systems Science Dept.
Tokyo Institute of Technology
4259 Nagatsuta, Midori-Ku
Yokohama, 227, JAPAN
anca@sys.titech.ac.jp

Thank you each for agreeing to serve on the *IEEE Neural Networks Council's ad hoc* Committee on **IEEE Transactions on Fuzzy Systems**. The charter of your committee is preparation of a proposal for establishment of the **Transactions** to be presented to the *NNC Publications Committee* and subsequently to the Council AdCom at its meeting on July 8, 1991 in Seattle. After approval by AdCom, the proposal will be forwarded to the IEEE Publications Board and TAB.

A hard copy of your proposal should be in my hands by June 20. I will include it in the pre-meeting mailing to *NNC Publications Committee* and *AdCom*.

Sincerely,

- copy -

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Toshio Fukuda, NNC Publications Chair
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Ann Burgmeyer, IEEE Manager of Pubs
Lewis Moore, IEEE Business Manager for Publications
Thomas Cain, Chairman, IEEE Publications Board

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

PROPOSAL for PUBLICATION

of the

IEEE TRANSACTIONS ON FUZZY SYSTEMS

by the

IEEE NEURAL NETWORKS COUNCIL

which is composed of representatives of the IEEE Societies listed in Appendix A

Prepared by the Ad Hoc Committee for the Transactions

**James C. Bezdek, Chair
Didier Dubois
Toshio Fukuda
Kaoru Hirota
Michio Sugeno
Lotfi Zadeh**

June, 1991

INTRODUCTION AND SUMMARY

This document presents a proposal for an *IEEE Transactions on Fuzzy Systems* sponsored by the *IEEE Neural Networks Council (NNC)*, which is composed of representatives from the *IEEE* Societies listed in Appendix A. The proposed transactions will be a quarterly publication starting in January, 1993 with 320 pages (including covers). The cost to *IEEE* members who belong to one of the member societies of the NNC will be \$10 for the first year; the cost to *IEEE* members outside of the member societies will be \$15. The proposed four-year budget shows a modest surplus (\$9k) in 1993, with continuing slight surpluses in each of the subsequent three years. The proposed budget lists 2000 member subscribers in 1993 plus 1000 in the all-transactions package rising to 3500 member subscribers in 1996. If current interest in Fuzzy Systems continues, these figures are conservative.

FUZZY SYSTEMS

Over the last five years fuzzy models in control systems and pattern recognition have supplanted more conventional technologies in many scientific applications and engineering systems. A recent Newsweek article [Appendix D] indicates that the Japanese now hold more than 2000 patents on fuzzy devices used in applications as diverse as: washing machines, TV Camcorders, air conditioners, palm top computers, vacuum cleaners, ship navigators, subway train controllers and automobile transmissions.

Interest in fuzzy systems in academic, industrial and government is also manifested by the rapid growth of national and international conferences. A short list of conferences includes: NAFIPS (North American Fuzzy Information Processing Society), annual 1982-1991; IFSA (International Fuzzy Systems Association), biannual 1985-1991; NASA, *Fuzzy Logic and Neural Networks*, biannual, 1988-1992; SPIE, *Fuzzy Logic*, annual beginning 1993; MCC, *Industrial Conference on Fuzzy Systems*, 1992; and finally, the *IEEE International Conference on Fuzzy Systems*, annual, beginning in 1992 [Appendix E]. This last conference was organized and sponsored by the *IEEE NNC*, the sponsor of this proposal.

The need for a centralized *IEEE* publication in Fuzzy Systems is based on a broad spectrum of interest both within and outside of the *IEEE*. There have been a number of fuzzy systems papers and special issues in the publications of *IEEE NNC Societies*. However, these scattered publications are quite difficult to follow for the ever-growing number of fuzzy systems researchers. Establishment of a Transactions would provide a valuable service to fuzzy systems researchers by making available a high quality archival publication that is characteristic of the *IEEE*. Areas of analysis and application include those of the member NNC societies, as well as other topics such as applications to economics, psychology, finance, and in the so-called soft sciences. Current *IEEE* publications are not adequate to cover the ever expanding topical areas in this new field. The proposed Transactions is intended to augment *IEEE* publications on Fuzzy Systems, and not to replace current *IEEE* publications. Interest by those not currently belonging to the *IEEE* would increase *IEEE* membership through the proposed transactions, especially in areas such as the social sciences, which utilize fuzzy models enthusiastically

From a technical standpoint, it is appropriate that the *IEEE NNC* propose the establishment of a Transactions on Fuzzy Systems, because it has become increasingly clear over the last few years that fuzzy models and neural networks are technically synergistic (e.g., the NASA conferences on *Fuzzy Logic and Neural Networks*; a planned special issue of *IEEE Transactions on Neural Networks* on "Fuzzy Systems and Neurocomputing," to appear in Fall, 1992; the *IEEE NNC* proposal to have an *IEEE Press* milestone series book entitled "Fuzzy Models in Pattern Recognition", etc.).

Fuzzy sets were introduced in 1965 by Lotfi Zadeh (Univ. of California, Berkeley) as a means for representing non-statistical uncertainty. Imprecision, vagueness and ambiguity in natural language often leads to fuzzy (non-random) statements such as "Apply your brakes *pretty soon*"; "if the temperature is *high* or speed is *great*, reduce the engine output *a little*." The theory of fuzzy sets has evolved as a representational language that provides a means for manipulating, combining, interpreting and using fuzzy instructions and/or data, with the ultimate purposes of classification, prediction and control.

As noted in Appendix D, successful applications of fuzzy models have gained great visibility through commercial applications in Japan. MITI in Japan started LIFE (Laboratory of Industrial Fuzzy Engineering) in 1988 with an annual budget of about \$24,000,000/yr (US dollars) for seven years. Japan now has a very large and active professional society (SOFT, the Japanese Society for Fuzzy Theories, about 1800 members) which publishes a technical journal in Japanese. Other professional societies are : IFSA (International Fuzzy Systems Association), 400 members; NAFIPS (North American Information Processing Society), 150 members; KFMS (Korean Fuzzy Mathematics and Systems Society), 210 members; and societies in India and China that have an estimated membership of about 6,000. In the US, a few companies such as Togai Infralogic and Rockwell, and agencies such as the NSF and NASA have provided limited but continued support for fuzzy systems development. Recently, however, US industries have begun to commission serious and dedicated efforts to engineering and scientific applications of fuzzy systems (e.g., the IEEE video teleconference on Fuzzy Systems, 1991; the ICFS, sponsored by MCC in 1992, etc.).

The major journals devoted to fuzzy systems are the *SOFT Journal* (Japan, about 1800 readers), *Fuzzy Sets and Systems* (North Holland, about 800 readers) and the *Int. J. Approximate Reasoning* (Elsevier, about 300 readers). It is appropriate that the IEEE create a flagship publication in the area of fuzzy systems, to collect and publish the best research on this important new technology. Although the current proposal calls for a transactions having 320 pages/year, it is anticipated that the Transactions will be able to justify expansion to 600 pages by the fourth year.

SCOPE OF THE PROPOSED TRANSACTIONS

The *IEEE Transactions on Fuzzy Systems* will publish high quality technical papers in the theory, design and application of fuzzy systems. Readers will be encouraged to submit papers which disclose significant technical knowledge, exploratory developments and applications of fuzzy systems. Emphasis will be given to engineering systems and scientific applications. The Transactions will also contain a letters section which includes information of current interest, and comments and rebuttals submitted in connection with published papers.

Representative applications areas include the following aspects of fuzzy systems:

1. Fuzzy estimation, prediction and control
2. Approximate reasoning
3. Intelligent systems design
4. Machine learning
5. Image processing and machine vision
6. Pattern recognition
7. Fuzzy neurocomputing
8. Electronic and photonic implementation
9. Medical computing applications
10. Robotics and Motion Control
11. Constraint Propagation and Optimization
12. Civil, Chemical and Industrial Engineering Applications

SPONSORSHIP

The Transactions will be sponsored by the *IEEE Neural Networks Council*, which is composed of the member Societies listed in Appendix A. The NNC has a large surplus in reserve in the unlikely event that the proposed transactions needs financial support during its first years of operation. The NNC will finance a one time purchase of approximately 8000 extra copies of the first issue of the Transactions on Fuzzy Systems which will be sent free of charge to all subscribers of the IEEE Transactions on Neural Networks.

ADMINISTRATIVE MANAGEMENT OF THE JOURNAL

Management of the Journal shall be vested in the NNC. The Editor shall be selected by the NNC, and may be removed by a two-thirds majority vote of the council. The term of office for the Editor shall be four years, renewable by the NNC. The Editor shall nominate Associate Editors to be approved by the council. A council member may be an Associate Editor, but may not in any way participate in discussions or vote concerning their own nomination. All actions of the NNC concerning the transactions, except removal of the Editor, shall be by majority vote of the council.

EDITORIAL POLICY

Editorial selection and review shall be consistent with policies and practices of the IEEE. There shall be no commercial advertising in the Journal. Papers for the initial issues will be obtained from individual solicitation and from papers submitted to the *1992 IEEE International Conference on Fuzzy Systems*. Final copies of papers for the conference are due by September, 1991; this will allow ample lead time for the preparation of the first Transactions issue, targeted to appear in January, 1993.

FINANCES

The budget for each calendar year for the Transactions of Fuzzy Systems shall be the responsibility of the Editor. The budget shall include all customary IEEE Expense and Income items. Appendix B shows the input data used in the financial analysis. Appendix C shows the financial projection for the years 1993 to 1996. All financial data are in based on proration of 1991 dollars.

Appendix A : MEMBERSHIP STATISTICS

Membership Statistics of constituent societies of the *IEEE Neural Network Council* as of 1/1/91:

<u>Society</u>	<u>Number of Members</u>
CAS	14,916
COMMUNICATIONS	31,412
CONTROL SYSTEMS	11,411
ENG. & MED. BIO.	7,691
IND. APPLICATIONS	11,215
IND. ELECTRONICS	6,560
INF. THEORY	6,295
LASERS ELECT. OP. SOC.	7,271
OCEAN ENGINEERING	2,233
ROBOTIC AND AUTOMATION	6,725
SIGNAL PROCESSING	15,925
SYSTEMS MAN & CYBER	5,029
Total	126,683

Proposal : IEEE Transactions on Fuzzy Systems : 6/11/91: p. 4

Appendix B: FINANCIAL INPUT DATA (1991 Dollars)

The expense numbers here are for a quarterly publication with 320 pages (including covers). This data was supplied by Lewis Moore, Business Manager for IEEE Publications, (908) 562-3959.

ESTIMATE FOR NEW TRANSACTIONS : SUMMARY DATA

Total number of pages/year	320
Total number of issues/year	4
Pages incl. covers-1 issue	80
Print Order	3000

FIXED COSTS (PER YEAR)

Editorial:	320 pp @ \$ 42.00	13,440.00
Comp & Layout:	320 pp @ \$ 60.00	19,200.00
Camera:	320 pp @ \$ 3.00	960.00
Press:		8,000.00
Covers and Binding:		3,000.00

VARIABLE COSTS (PER YEAR)

Press:	1,000.00
Mailing (labor & labels):	2,000.00
Postage (75% Domestic, 25% Foreign):	6,000.00
Paper (text & cover):	4,000.00
Pub Admin Costs:	1,500.00
TOTAL PER YEAR, 1991 dollars	51,110.00

Appendix C. Budget Estimates for the Proposed Transactions on Fuzzy Systems.
 1993 Base Costs are 120% of 1991 Base Costs. Subsequent costs are proportional to the total number of published pages.

Year	1993	1994	1995	1996
Number of Pages:	320	400	496	600
Number of Copies:				
Full Package	1000	1000	1000	1000
Member Subs.	2000	2500	3000	3500
Total Prinrun	3000	3500	4000	4500
Costs (K\$)				
Prod. and Distr.	56	70	87	105
Indexing	2	2	3	3
Direct Editorial Expenses	8	10	10	10
Total Costs (K\$)	66	82	100	118
Income (K\$)				
Member fees	\$10	\$10	\$14	\$16
Income, member fees	20	25	42	56
Non-Member Fee	\$100	\$100	\$100	\$100
Income, Non-members (100)	10	10	10	10
Full Package Subscribers	45	52	57	60
Total Income (K\$)	75	87	109	126
Net (K\$)	+9	+5	+9	+8

The Future Looks 'Fuzzy'

Yet again, Japan is cashing in on a U.S. invention

Imagine a futuristic washing machine. It's still coated with white enamel, but it just got a whole lot smarter. You dump the laundry basket into the tub, push one button and leave.

The machine then uses an optical sensor to look at your clothes, decides how dirty they are, determines how much detergent, water and cycles are required, then goes about its business. The built-in intelligence of the washing machine is comparable to a human's good sense—at least as far as laundry is concerned. Sound like science fiction? Not really. You can already buy such a washer from two different companies in Japan.

How do they work? The key is fuzzy logic, a new way to program computers and appliances to mimic the imprecise way humans make decisions. It's the latest in a long line of technologies—from robotics and VCRs to solar cells—that Americans invented, only to see savvy Japanese manufacturers take the lead in finding commercial applications. For Japanese firms, fuzzy logic may prove even a greater coup than the VCR: within a decade, everything from cameras and elevators to toasters and automobiles will probably incorporate fuzzy-logic computer chips. "In 10 years," says Sheridan Tatsuno, principal of NeoConcepts in Fremont, Calif., and an expert on Japanese technology, "fuzzy logic will be a 2-to-3-billion-dollar business."

By then we may be buying fuzzy VCRs that come with only one button—to turn them on and off—and are programmed solely by voice commands. Fuzzy cameras will automatically and subtly compensate for tricky lighting situations. Fuzzy microwave ovens will watch over meals with the same sensitivity as a human cook. Fuzzy shower systems will prevent sudden changes in water pressure from chilling—or scalding—the bather. Fuzzy air conditioners and heaters will balance temperatures according to the number of people in a room and the power needs of a house. "Within a few years," says Tatsuno, "there

will be several hundred applications."

Fuzzy logic was indisputably born in the United States, in the mid-1960s, at the modest northside Berkeley, Calif., home of Lotfi Zadeh, now 69 and still teaching at the University of California. The unkind might call him the original computer nerd: he buys only used cars, wears a pocket protector and carries a mathematical calculator in a plastic pouch on his belt. But Zadeh was also the first to create a way for comput-

THE ASIAN CHALLENGE

er programs to recognize that reality has shades of gray. The simple yes-no response of traditional programming doesn't deal with, say, the case of laundry that isn't all equally dirty. The idea was obvious, but Zadeh was ignored by U.S. business.

Not so in Japan. Japanese manufacturers have not only found pure computer applications, like a new Sony computer

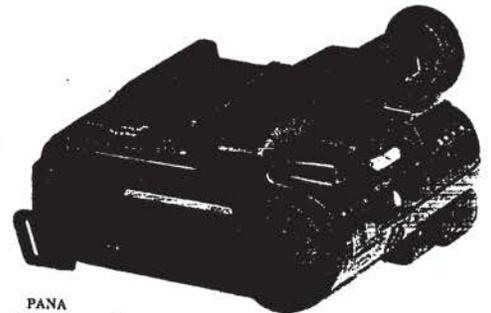


A prophet with little recognition in his own land

that uses fuzzy logic to recognize handwriting on its screen. They've discovered that "fuzzy" is a highly effective way to control appliances. The next product on Japanese drawing boards is the fuzzy VCR—a product that should go over big in the United States, given the surveys that indicate many Americans can't figure out how to

How It Works

The Japanese have discovered dozens of commercial applications for fuzzy logic, which allows computers to operate with more of the flexibility of the human mind. Some examples of what the technology allows different products to do:



PANA

CAMERAS: It helps photographic equipment react automatically and subtly to changes in light conditions.



SUBWAYS: Fuzzy can help rearrange departure schedules to compensate for delays and bring trains to quiet stops.



JAMES D. WILSON—NEWSWEEK

Berkeley professor and programming pioneer Zadeh

program their VCRs. A fuzzy VCR might, with voice synthesis, say, "I think you're programming me incorrectly." The potential for other products is enormous: Japanese researchers have already built a fuzzy car capable of parking itself.

Yet Zadeh won't get rich. When his first papers appeared, there was little prece-

dent for protecting intellectual property. "It didn't even occur to me to patent it," he says. "Now there are over 2,000 fuzzy logic patents in Japan alone." Dozens of products have already come to market: the first fuzzy washing machine, made by Matsushita (Panasonic in the United States), sold out its initial production run within weeks. Zadeh, still virtually unknown in America, has his name on office-building plaques in Japan.

What's fuzzy logic? A comparison: American computer scientists today bicker over the relative merits of two forms of artificial intelligence (AI): classic AI and "neural networks." So far the winner in the United States is classic AI, which depends on fixed rules programmed into the computer, plus data that's fed into it. This means the computer would use its rules, along with your credit record, to tell a bank whether to give you a new credit card. The problem: in the real world, rules keep changing, but the

ones in the computer don't.

That's why neural network computers, which far more accurately mimic the human mind, have become a hot topic in computer science. Neural-network computers can learn from experience. For example: a neural-network computer in California designed to approve home loans receives feed-

back on which loans went sour and uses that information to alter its approval system. The problem: thus far, neural networks need the care and feeding of a human 2-year-old. Little dependable software exists for them, and so corporations are hesitant to invest. Once again, corporate America's emphasis on showing short-term gains and avoiding long-term risk may mean that the lead in neural-network computing could soon go to Japan.

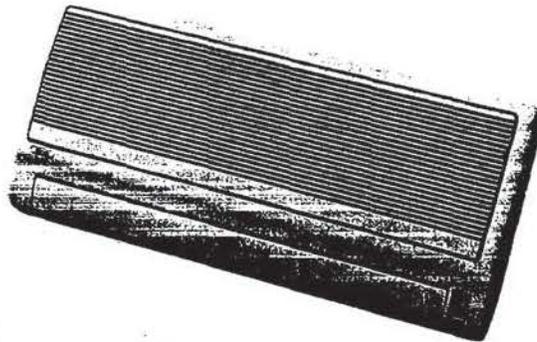
In fuzzy logic, the Russian-born Zadeh essentially combined the two schools of artificial intelligence. The fuzzy computer is preprogrammed, but with highly flexible rules. While fuzzy computers can't reprogram themselves, as can neural networks, they can adapt to changing conditions. If trains on the Sendai line in Japan (one of the first fuzzy applications) are late, the train-controlling computer can reschedule as necessary. The same fuzzy computer also controls the rate at which trains stop at stations: straphangers don't need to grip hard because station stops are as gentle as a kitten. In Japan, fuzzy computers also control elevators, deciding where to stop depending on the number and destination of passengers. There is even a fuzzy-logic investment fund, using the technique to analyze the Tokyo stock market.

Few U.S. products: American business people and government officials are finally taking note of fuzzy. The top-of-the-line Kenmore refrigerator uses fuzzy logic to defrost itself. Last month NASA's Johnson Space Center hosted a conference on fuzzy logic and neural networks. (NASA might use fuzzy logic in future space-vehicle control systems.) At least one U.S. start-up, Togai InfraLogic, is already building fuzzy chips. Sony is rumored to have approached a small Silicon Valley firm to make fuzzy chips for a U.S. version of its handwriting-recognition computer. IBM, Hewlett-Packard and Rockwell International are all studying fuzzy logic, although no products are in sight. Analyst Tatsuno believes American firms might find a niche making fuzzy chips for Japanese appliances and predicts the technology could spawn as many as 100 new U.S. companies this decade.

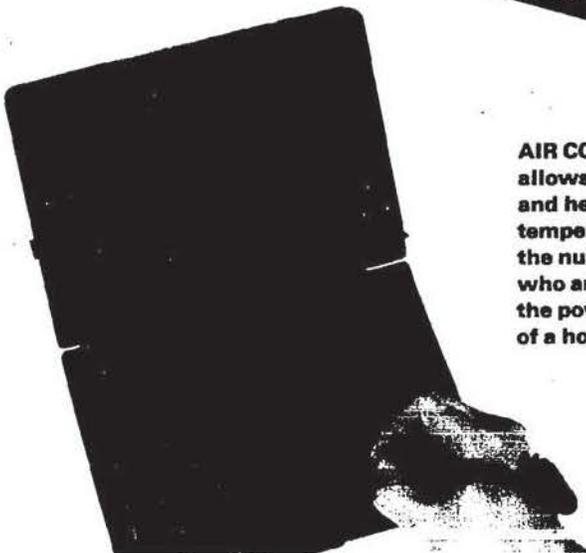
At home in Berkeley, Zadeh is philosophical about being a prophet with little recognition in his own land. "In the U.S., there's a tradition for what is precise, for Cartesian logic. In Japan there is more appreciation of the imprecise, of ambiguity. I've always been confident that people will come around to my way of thinking." Soon, he says, fuzzy logic will be in every appliance. "We'll see appliances rated not on horsepower but on IQ." Then keeping up with the neighbors may take on a new edge. Hey: my microwave is smarter than yours.

MICHAEL ROGERS with YURIKO HOSHIAI
in Tokyo

COMPUTERS: A new Sony 'PalmTop' machine uses fuzzy logic to help it recognize and respond to a user's handwriting when it appears on the screen.



AIR CONDITIONERS: It allows electric coolers and heaters to change temperatures based on the number of people who are in the room, or the power requirements of a house.



Technology

Time for Some Fuzzy Thinking

An oddball approach to computer science pays off in Japan

BY PHILIP ELMER-DEWITT

In the pages of *Books in Print*, listed among works like *Fuzzy Bear* and *Fuzzy Wuzzy Puppy*, are some strange-sounding titles: *Fuzzy Systems*, *Fuzzy Set Theory* and *Fuzzy Reasoning & Its Applications*. The bedtime reading of scientists gone soft in the head? No, these academic tomes are the collected output of 25 years of mostly American research in fuzzy logic, a branch of mathematics designed to help computers simulate the various kinds of vagueness and uncertainty found in everyday life. Despite a distinguished corps of devoted followers, however, fuzzy logic has been largely relegated to the back shelves of computer science—at least in the U.S.

But not, it turns out, in Japan. As they have so often in the past, the Japanese have seized on an American invention and found practical uses for it. Suddenly the term fuzzy and products based on principles of fuzzy logic seem to be everywhere in Japan: in television documentaries, in corporate magazine ads and in novel electronic gadgets ranging from computer-controlled air conditioners to golf-swing analyzers. The concept of fuzziness has struck a cultural chord in a society whose religions and philosophies are attuned to ambiguity and contradiction. Says Noboru Wakami, a senior researcher at Matsushita: "It's like soy sauce and sushi—a perfect match."

What is fuzzy logic? The original concept, developed in the mid-'60s by Lofti Zadeh, a Russian-born professor of computer science at the University of California, Berkeley, is that things in the real world do not fall into the neat, crisp categories defined by traditional set theory, like the set of even numbers or the set of left-handed baseball players. In standard Aristotelian logic, as in computer science, membership in a class or set is not a matter of degree. Either a number is even, or it is not. But this on-or-off, black-or-white, 0-or-1 approach falls apart when applied to many everyday classifications, like the set of beautiful women, the set of tall men or the set of very cold days.

To deal with such cases, Zadeh proposed that membership in a set be measured not as a 0 or a 1, but as a value between 0 and 1. Thus, in the set of tall men, George Bush (6 ft. 2 in.) might have a

membership value of 0.7, while Kareem Abdul-Jabbar (7 ft. 2 in.) might have a 0.99. Zadeh and his students went on to elaborate a full fuzzy mathematics, devising precise rules for combining vague expressions like "somewhat fast," "very hot" and "usually wrong."

This mathematics turns out to be surprisingly useful for controlling robots, machine tools and various electronic systems. A conventional air conditioner, for example, recognizes only two basic states: too hot or too cold. When geared for thermostat control, the cooling system either



ILLUSTRATION FOR TIME BY GARY BASEMAN

operates at full blast or shuts off completely. A fuzzy air conditioner, by contrast, would recognize that some room temperatures are closer to the human comfort zone than others. Its cooling system would begin to slow down gradually as the room temperature approached the desired setting. Result: a more comfortable room and a smaller electric bill.

Fuzzy logic began to find applications in industry in the early '70s, when it was teamed with another form of advanced computer science called the expert system. A product of research into artificial intelligence, expert systems solve complex problems somewhat like human experts do—by applying rules of thumb. (Example: when the oven gets very hot, turn the gas down a bit.) In 1980 F.L. Smidth & Co. of Copenhagen began marketing the first commercial fuzzy expert system: a computer program that controlled the fuel-intake rate and gas flow of a rotating kiln used to make cement.

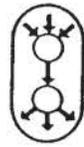
Despite such successes, fuzzy logic was not well received in the U.S. Scientists pointed out that uncertainty and vagueness could be represented perfectly well by more traditional means, like statistics or probability theory. Some of the criticism bordered on the vituperative, and the tenets of fuzzy logic were dismissed with terms ranging from "comical" to "content-free."

The Japanese, however, showed no such resistance, perhaps because their culture is not so deeply rooted in scientific rationalism. Says Bart Kosko, a Zadeh protégé and a professor of electrical engineering at the University of Southern California: "Fuzziness begins where Western logic ends." In the early '80s several Japanese firms plunged enthusiastically into fuzzy research. By 1985 Hitachi had installed the technology's most celebrated showpiece: a subway system in Sendai, about 200 miles north of Tokyo, that is operated by a fuzzy computer. Not only does it give an astonishingly smooth ride (passengers do not need to hang on to straps), but it is also 10% more energy efficient than systems driven by human conductors.

Japanese researchers are pursuing more than 100 new applications for fuzzy logic. Nissan has patented fuzzy auto transmission and antiskid braking systems. Yamaichi Securities has introduced a fuzzy stock-market investment program for signaling shifts in market sentiment. Canon is working on a fuzzy auto-focus camera. Matsushita has delivered a fuzzy automobile-traffic controller, and is about to unveil a fuzzy shower system that adjusts to changes in water temperature to prevent morning scaldings. And in the strongest endorsement of the technology to date, the Ministry of International Trade and Industry opened the Laboratory for International Fuzzy Engineering Research in Yokohama and called for funding of some \$34 million over the next six years.

The U.S. is not totally out of the fuzzy picture yet. A small firm in Irvine, Calif., Togai InfraLogic, has already achieved several of the goals MITI set for itself, including a fuzzy computer chip that can perform 28,600 fuzzy-logical inferences per sec. (FLIPS). And NASA is experimenting with fuzzy controllers that could help astronauts pilot the shuttle in earth orbit. The results so far, say NASA officials, are encouraging, and there is growing interest at such aerospace firms as Rockwell and Boeing. "The only barrier remaining" to wider use of fuzzy logic, says Kosko, "is the philosophical resistance of the West." —Reported by Norihiko Shirouzu/Tokyo

TAB 14



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

6-20-91

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Dear NNC Publications Committee,

Here is an potential action item.

The attached letter to me from Dr. Rosenfeld is self explanatory. I recommend that your committee review this situation and make any recommendations you feel appropriate to AdCom.

A handwritten signature in black ink, appearing to read 'R. Marks II' with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
INTELLIGENCE
PO Box 20008
New York, NY 10025-1510
212-222-1123 Voice & FAX

6-10-91

Dr. Robert Marks
IEEE Neural Networks Council Publications
Dept. of EE
U of WA - MS: FT-10
Seattle, WA 98195

Dear Bob:

Enclosed is the letter that you requested I write about the name of my newsletter, **INTELLIGENCE** - The Future of Computing, (founded November, 1983, first monthly issue published May, 1984) and the name of your Council's newest publication, *the intelligence connection*.

You told me on the phone that the Council's Publication Board would be meeting Sunday, 7 July 1991. I will be in Seattle that day and I would really appreciate the opportunity to address your Board meeting in person. Could you arrange that? I hope so.

Thanks for your time and attention. I'll see you in Seattle next month, and hope to hear from you soon.

Sincerely,



EDWARD ROSENFELD
Enclosures

INTELLIGENCE
PO Box 20008
New York, NY 10025-1510
212-222-1123 Voice & FAX

6-10-91

IEEE Neural Networks Council Publications Board
c/o Dr. Robert Marks
Dept. of EE
U of WA - MS: FT-10
Seattle, WA 98195

Dear Council Board Members:

I am writing this letter to put down on paper the protest I made in May orally in a telephone conversation with Dr. Robert J. Marks, II. I called Bob to talk about the name of my newsletter, **INTELLIGENCE** - The Future of Computing, and the name of your Council's newest publication, *the intelligence connection (tic)*.

As you may already be aware, I am a charter advertiser in your new publication. After several telephone conversations with Rosalind Snyder, I placed an ad in the first issue of *tic*. The name of your newsletter was never disclosed to me during those talks.

But the name of my newsletter was made known to Ms. (Dr.?) Snyder at that time, before the *tic* name had been chosen. I had also interviewed Dr. Marks earlier this year for a story in my newsletter and sent Bob a copy of that issue. So he, too, was aware of the name of my publication.

I founded **INTELLIGENCE** in November, 1983, registering the name in New York State. The first monthly issue was published in May, 1984. Since then, my efforts have received a great deal of attention and respect, including quotes and references in such publications as the *Wall Street Journal*, the *New York Times*, *Business Week*, *Forbes*, etc. In the summer of 1990, I purchased all of the rights and properties of a competing newsletter, *Synapse/Connection* and retired that name.

I was quite delighted when people began calling in response to my ad in *tic*. But my delight turned to consternation when several callers asked if my newsletter was the same as the IEEE newsletter where they had seen my ad. Then a friend faxed me your front page and I understood the confusion. Our names are too similar.

In order to end this confusion I would like to request that the IEEE Neural Networks Council rename its newsletter publication. Your new publication is just starting out, whereas I have spent close to a decade trying to build the brand name recognition required to keep a small publication like mine in business. *Neural Network(s) Connection* is available, and I believe that *Neural Network News* is now available, since that publication, too, ceased publication last year.

Thank you for your attention and consideration

Sincerely,



EDWARD ROSENFELD
Editor & Publisher

INTELLIGENCE

THE FUTURE OF COMPUTING

© COPYRIGHT 1984, BY EDWARD ROSENFELD. POST OFFICE BOX NUMBER 20008, NEW YORK, NEW YORK 10025 MAY 1984

WILLIAM PALEY AND GENERAL MOTORS: MAJOR NEW INVESTORS IN AI CORPS.

PALEY & OTHERS MAKE MAJOR INVESTMENT IN MARVIN MINSKY START-UP:

Thinking Machines Corporation, a new, Waltham, MA, company has been started and features some of the brightest and most able people in the Intelligence Industries. Sheryl Handler is president of TMC and a prime reason that investors William Paley, Frank Stanton, Jerome Wiesner and others have reportedly put up an eight digit stake to see that TMC gets off on the right foot. Ray Price, a former Nixon aide now working with Paley, confirmed Paley's investment but was mum on the amount of start-up capital involved.

Scientists associated with TMC include Marvin Minsky, one of the founders of artificial intelligence and Donner Prof. at MIT; Marvin Denicoff, recently retired from the AI program at the Office of Naval Research; Howard Resnikoff, from Harvard and the National Science Foundation; Gerald Sussman of MIT; and, also from MIT, W. Daniel Hillis.

Hillis is well known for his research into massive parallelism while at MIT. His parallel processing computer, known as the Connection Machine, is now in prototype construction at TMC according to Handler. Aid to this work will come by way of Richard Clayton, now TMC's VP for product development. Most recently, Clayton was VP for advanced manufacturing technology at Digital Equipment Corporation.

TMC has a corporate fellows program with an all-star line-up that includes Wiesner, Nobel laureate Richard Feynman of Cal Tech, Douglas Lenat of Stanford, Jacob Schwartz of NYU, Tomaso Poggio of MIT, and Jayant Shah of Northeastern. C. Gordon Bell, formerly of DEC, will be a special advisor on the Hillis prototype.

In addition to his activities at TMC and MIT, sources confirmed to INTELLIGENCE that Marvin Minsky has been in negotiations with the Encyclopædia Britannica, Inc., on their electronic encyclopedia project. More on this important story as information becomes available.

GM BUYS INTO TEKKNOWLEDGE, BUYS FROM ROBOMATION, FLIRTS WITH EDS:

General Motors has purchased a minority interest in Teknowledge, a Palo Alto company that markets knowledge engineering software tools and training. GM indicated that its purchase of an 11% stake was not a preamble to a takeover of Teknowledge. Nils Muench, head of computer science at GM, told INTELLIGENCE that GM recognizes the importance of AI related technologies. He said that he expected that GM will use Teknowledge's expert systems expertise in the development of auto diagnostic systems for GM products. Such systems are still several years from incorporation in consumer models. Muench did indicate that the use of such systems might appear earlier for internal use by GM. He said that GM had no further investments planned in other AI-related companies.

But GM is active in the robotics field. Its wholly-owned subsidiary, GMFanuc Robotics Corporation of Troy, Michigan recently indicated that it will spend up to \$60 million over the next six years to purchase a vision/image analysis system from International Robomation/Intelligence of Carlsbad, CA. The IRI system will be used for the manufacturing systems for the Saturn, GM's future small car.

(continued on page 2)

In the meantime, Wall St. insiders have been all worked up over rumors that GM will purchase, outright, H. Ross Perot's Electronic Data Systems Corporation. GM chairman Roger Smith recently told an auto industry publication that if he was able to do what he wanted GM would soon have a division to deal with fields related to electronic products. Others have speculated that GM wants EDS to help in the development of robotics software. GM recently purchased 10% of Philip Crosby & Associates, a consulting firm that specializes in manufacturing quality-control.

All of this GM activity will probably first be put into action at the GM factory-of-the-future at the concern's Saginaw (MI) steering gear division which expects to have a pilot program in operation in the fall of 1985 and achieve full automated, computer-controlled production by 1987.

EXPERT SYSTEMS FOR PERSONAL COMPUTERS

A variety of software products have reached the personal computer market in 1984 that bring with them the promise of artificial intelligence technologies. The granddaddy of AI software, "Intellect" from Artificial Intelligence Corp., is available to let you interrogate your mainframe from your PC at a price of \$17,500. "Power" from Expertware, Inc., aids software development and runs on your PC at a price of less than \$10,000. "TK!Solver" from Software Arts is billed as an equation solver. Microrim's "Clout" is a natural language front-end for interrogating that company's DBMS: "R:base". "In-Search" provides a similar front-end for talking with the Lockheed on-line database Dialog. Human Edge Software's the "Sales Edge" and "Management Edge" provides question/answer formats for building business strategies. Excalibur Technologies' "Savy" and Texas Instrument's "NaturalLink Technology Package" also provide natural language front-ends for PC users.

But the most exciting product yet to appear in the AI for the PC market is Export Software International's expert systems generator, "Expert-Ease". This program enables PC users to develop their own expert systems. It does this because of a special set of formulas (algorithms called an inference engine) that enable Expert-Ease to examine data and extract rules from the data.

Expert-Ease's inference engine was developed by one of the original pioneers in artificial intelligence, Donald Michie (pronounced: mickey) and his one-time graduate student, Ross Quinlan (now at the University of New S. Wales). Michie, who Edward Feigenbaum credits with alerting him to the importance of the Japanese Fifth Generation computing project, is in the process of leaving the Univ. of Edinburgh, where he started the AI program, to start a new, similar department at Scotland's Strathclyde U.

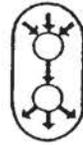
What makes Expert-Ease so exceptional is the ability of its inference engine to find rules. Data is entered into the program and the inference engine finds the rules that connect the data and presents these rules to the user. Though the program is expensive, \$150 for a demonstration disk, \$2,000 for the complete implementation, it is the only AI PC program seen to date that really makes use of AI software technologies for microcomputers.

Expert systems allow the knowledge and expertise of a specialist to be made available to anyone who interrogates the expert system program. Expert-Ease brings this innovative new AI technology to the world of microcomputer users. The program is available in the Eastern U.S. from Expert Systems, Inc. in New York City and in the West from J. Perrone & Assocs. in San Francisco. The software runs on IBM PCs and compatibles. It requires two double-sided, disk drives and a minimum of 128K RAM.

LOTUS DEVELOPMENT AND AI

When Peter Gabel left Lotus' advanced development group to start his own company, Prelude Development, the latter's first contract for AI development was from Lotus. Now, word has it that Lotus is hard at work on its own AI software development. The rumor is Lotus is working to bring its own AI software to market before Prelude. Stay tuned.

TAB 15



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Publications Committee,

The following is an information item.

The attached motion was passed at the June 1991 San Francisco TAB meeting.

With the concurrence of Vice President Eberhart, I committed to the suggested increase from \$75 to \$95 for our Transactions. This primarily affects library subscriptions.

A handwritten signature in black ink, appearing to read 'R. J. Marks II' with a stylized flourish at the end.

Robert J. Marks II, President
IEEE Neural Networks Council

Motion:

That TAB endorse the 1992 non member subscription prices, including All Periodicals Package as presented by the TAB Finance Committee for recommendation of approval by the IEEE Executive Committee.

TAB offers each Society the option of accepting the recommendation of TAB Finance Committee with respect to non-member subscription prices or of continuing as originally presented by the Society.

IEEE TECHNICAL ACTIVITIES

PROPOSED NON-MEMBER & ALL PERIODICALS PACKAGE PRICES FOR 1992

dahlmnp.r.wk1

S/C	PUBL	IS	EQUIV PAGES	TOTAL PAGES	92			DAHL '92 LIST PR	DAHL PR VS BASE PR	DAHL PR VS S/C PR
					BASE PR	LIST PR	LP/BP			
SP-01	* T-SP	12	3000	3000	254.04	260.00	1.02	310.00	1.22	1.19
	* M-SP	4	224	224	70.86	60.00	0.85	60.00	0.85	1.00
	* T-IP	4	500		101.91	122.00	1.20		0.00	0.00
BT-02	* T-BC	4	92	184	48.28	40.00	0.83	50.00	1.04	1.25
AP-03	* T-AP	12	1700	1700	197.17	212.00	1.08	265.00	1.34	1.25
	* M-AP	6	240	480	77.07	85.00	1.10	90.00	1.17	1.06
CAS-04	* T-CAS	12	1696		196.97		0.00	295.00	1.50	
	* T-CAS1	12	1088	1088	162.54	177.00	1.09		0.00	0.00
	* T-CAS2	12	896	896	149.72	163.00	1.09		0.00	0.00
	* T-CAD	12	1648	1648	194.50	260.00	1.34	260.00	1.34	1.00
	* T-CSVT	4	400	400	92.00	100.00	1.09	115.00	1.25	1.15
NPS-05	* T-NS	6	946	1892	141.18	141.00	1.00	170.00	1.20	1.21
	* T-PS	6	1250	1250	160.49	160.00	1.00	180.00	1.12	1.13
VT-06	* T-VT	4	596	596	110.54	90.00	0.81	90.00	0.81	1.00
R-07	* T-R	5	640	640	116.25	100.00	0.86	96.00	0.83	0.96
CE-08	* T-CE	4	800	800	126.79	115.00	0.91	135.00	1.06	1.17
IM-09	* T-IM	6	1088	1088	150.54	135.00	0.90	125.00	0.83	0.93
AES-10	* T-AES	4	1000	1000	140.82	140.00	0.99	130.00	0.92	0.93
	* M-AES	12	560	560	123.39	70.00	0.57	65.00	0.53	0.93
NN-11	* T-NN	6	960	960	142.13	75.00	0.53	95.00	0.67	1.27
IT-12	* T-IT	7	1900	1900	197.07	215.00	1.09	245.00	1.24	1.14
IE-13	* T-IE	6	600	600	114.88	103.00	0.90	120.00	1.04	1.17
EM-14	* T-EM	4	464	464	98.47	98.00	1.00	105.00	1.07	1.07
	* M-EM	4	200	400	67.40	75.00	1.11	90.00	1.34	1.20
ED-15	* T-ED	12	3000	3000	254.04	288.00	1.13	315.00	1.24	1.09
	* L-ED	12	775	800	140.92	120.00	0.85	115.00	0.82	0.96
C-16	* T-C	12	1520	1520	187.75	257.00	1.37	295.00	1.57	1.15
	* M-C	12	1214	1214	170.34	234.00	1.37	250.00	1.47	1.07
	* T-SE	12	1200	1200	169.49	233.00	1.37	295.00	1.74	1.27
	* T-PAMI	12	1296	1296	175.20	240.00	1.37	255.00	1.46	1.06
	* T-KDE	6	632	632	117.59	161.00	1.37	160.00	1.36	0.99
	* T-PDS	6	760	760	127.79	174.00	1.36	150.00	1.17	0.86
	* M-G&A	6	630	630	117.42	160.00	1.36	175.00	1.49	1.09
	* M-MICR	6	600	600	114.88	157.00	1.37	165.00	1.44	1.05
	* M-D&T	4	400	400	92.00	125.00	1.36	140.00	1.52	1.12
	* M-SOFT	6	660	660	119.90	164.00	1.37	175.00	1.46	1.07
	* M-EXP	6	568	568	112.10	153.00	1.36	165.00	1.47	1.08
	* A-HC	4	336	336	84.99	95.00	1.12		0.00	0.00
MTT-17	* T-MTT	12	2300	2300	225.42	225.00	1.00	280.00	1.24	1.24
	* L-MGW	12	512	512	119.04	120.00	1.01	140.00	1.18	1.17
EMB-18	* T-EM	12	1264	1264	173.32	206.00	1.19	215.00	1.24	1.04
	* M-EM	4	336	336	84.99	78.00	0.92	75.00	0.88	0.96
COM-19	* T-COM	12	1750	1750	199.70	160.00	0.80	195.00	0.98	1.22
	* M-COM	12	1100	1100	163.30	90.00	0.55	105.00	0.64	1.17
	* J-SAC	9	1700	1700	191.17	147.00	0.77	185.00	0.97	1.26
	* M-NET	6	400	400	96.00	85.00	0.89	98.00	1.02	1.15
	* M-LTS	4	400	400	92.00	75.00	0.82	75.00	0.82	1.00
UFFC-20	* T-UFFC	6	896	896	137.72	169.00	1.23	220.00	1.60	1.30
CHNT-21	* T-CHNT	6	1400	1400	169.15	185.00	1.09	145.00	0.86	0.78
OE-22	* J-OE	4	516	516	103.41	100.00	0.97	115.00	1.11	1.15
CS-23	* T-AC	12	1680	1680	196.15	235.00	1.20	290.00	1.48	1.23
	* M-CS	7	588	588	115.84	120.00	1.04	115.00	0.99	0.96
RA-24	* T-RA	6	824	824	132.56	124.00	0.94	145.00	1.09	1.17
Ed-25	* T-Ed	4	400	400	92.00	98.00	1.07	98.00	1.07	1.00

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IEEE TECHNICAL ACTIVITIES

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S/C	PUBL	IS	EQUIV PAGES	TOTAL PAGES	S/C			DAHL '92 LIST PR	DAHL PR VS BASE PR	DAHL PR VS S/C PR	
					92 BASE PR	92 LIST PR	92 LP/BP				
PC-26	* T-PC	4	288	288	79.28	75.00	0.95	80.00	1.01	1.07	
EMC-27	* T-EMC	5	450	450	99.10	93.00	0.94	95.00	0.96	1.02	
SMC-28	* T-SMC	6	1536	1536	176.61	146.00	0.83	140.00	0.79	0.96	
GRS-29	* T-GRS	6	1100	1100	151.30	147.00	0.97	135.00	0.89	0.92	
SIT-30	* M-T&S	4	176	176	63.72	64.00	1.00	65.00	1.02	1.02	
PE-31	* M-PER	12	900	900	150.00	95.00	0.63	110.00	0.73	1.16	
	* T-EC	4	400	800	92.00	105.00	1.14	125.00	1.36	1.19	
	* T-PWRS	4	800	1600	126.79	120.00	0.95	155.00	1.22	1.29	
	* T-PWRD	4	1050	2100	144.10	125.00	0.87	145.00	1.01	1.16	
	* M-CAP	4	288	288	79.28	61.00	0.77	70.00	0.88	1.15	
DEI-32	* T-EI	6	1224	1224	158.94	150.00	0.94	145.00	0.91	0.97	
	* M-EI	6	362	408	91.91	108.00	1.18	99.00	1.08	0.92	
MAG-33	* T-MAG	6	2450	4052	219.89	263.00	1.20	325.00	1.48	1.24	
IA-34	* T-IA	6	1642	1642	182.19	183.00	1.00	185.00	1.02	1.01	
PEL-35	* T-PE	4	656	656	115.57	120.00	1.04	120.00	1.04	1.00	
LEO-36	* J-QE	12	2752	2752	244.33	305.00	1.25	390.00	1.60	1.28	
	* L-PT	12	1200	1200	169.49	211.00	1.24	195.00	1.15	0.92	
SSC-37	* J-SSC	12	2050	2050	214.16	203.00	0.95	235.00	1.10	1.16	
THI-916	* T-MI	4	624	624	112.92	105.00	0.93	110.00	0.97	1.05	
JLT-919	* J-LT	12	2288	2288	224.90	280.00	1.25	350.00	1.56	1.25	
DivI-921	* M-C&D	6	378	400	93.60	100.00	1.07	98.00	1.05	0.98	
CSM-923	* T-SM	4	378	400	89.60	90.00	1.00	90.00	1.00	1.00	
SCC-925	* T-ASC	4	248	248	74.14	80.00	1.08	95.00	1.28	1.19	
MEMS-926	* T-MEMS	4	320	320	83.13	100.00	1.20				
TOTAL					563	75704	78954	10748.12	11103.00	11799.00	
NON-APP P											
ED-15	* J-ECMA	12	1200	1200	169.49	170.00	1.00	140.00	1.21		
MAG-33	* TJMJ	12									

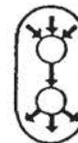
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EQUIV PAGES: EQUIVALENT PAGES (ONE FULLY EDITED = TWO AUTHOR/CAMERA READY)
BASE PRICE: 2.0N + 4.2* /P; N=ISSUES, P=EQUIVALENT PAGES
LIST PRICE: DETERMINED BY SOCIETY/COUNCIL
LP/BP: PERCENTAGE LIST PRICE IS ABOVE/BELOW BASE PRICE
FTP PR: LOWER OF BASE OR LIST PRICE USED TO COMPUTE FULL TRANS PACKAGE
%FTP: PERCENT ALLOCATION FOR THAT PUBLICATION FROM FTP

CREATED MARCH 13, 1991

#Received "Request for Waiver" Letters for Finance Committee

FTP92.WK1

TAB 16



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
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Department of Electrical Engineering, FT-10

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Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Publications Committee,

The following is an information item.

At the recommendation of Newsletter Production Editor, and consistent with the action of the NNC AdCom, the attached contract was signed with Newsletter Managing Editor, Roz Snyder.

A handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

Contract for Editing Services

This agreement, made and entered into this 20th day of February 1991, by and between Rosalyn Snyder (SSN 249 80 1520) hereinafter referred to as the Managing Editor, and the Advisory Committee of the IEEE Council on Neural Networks, hereinafter referred to as the Ad Com: The Managing Editor agrees to provide the following services to the Ad Com in conjunction with the production of the Newsletter of the Society:

1. Soliciting, writing, and editing newsletter articles at the direction of and subject to the approval of the Editor appointed by the Ad Com
2. Design and layout
3. Computer Laser Printer Typesetting and production of PostScript files using her facilities
4. Dummy preparation
5. Correspondence with authors, subscribers, advertisers, IEEE administration (regarding Newsletter production), and printers
6. Soliciting and billing for advertisements

The Ad Com agrees to pay the Managing Editor at the rate of \$155.00 per page for each issue of the Newsletter. In addition the AdCom will reimburse the Managing Editor for telephone, printing (e.g. letterhead), and mailing expenses, and for actual travel expenses to attend one AdCom meeting per year. Any other reimbursable exesnes must be approved in advance b the President of the AdCom.

The Ad Com will be billed directly by the IEEE for printing and mailing of each issue of the Newsletter.

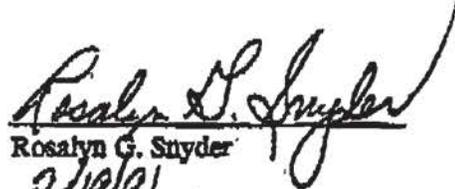
Approved:


 Robert J. Marks II
 President, Advisory Committee
 IEEE Council on Neural Nets

2/27/91
 Date


 Charles J. Robinsch
 Production Editor
 IEEE Council on Neural Nets

3/6/91
 Date


 Rosalyn G. Snyder
2/19/91
 Date

A definite acceptance will occur upon receipt of a signed original or a facsimile of a signed original by all signees. If a FAX transmittal is used by any party, then the FAX copy shall serve as an original unless an actual original is executed and received by all parties within ten (10) days.

TAB 17



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO

May 10, 1991

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Gentlemen:

I hereby submit a revised budget for IJCNN'92 Baltimore. The difference in the revised budget is the insistence by INNS that the registration fee for members be below \$200. The revised budget reflects that requirement.

The new registration fee structure consists of three time periods as indicated in the budget: \$195 before February 1, 1992; \$245 before April 20; and \$295 after April 20 and on-site, all for members. There is a corresponding three-period fee structure for non-members. Assuming that only 5% of the attending members and 2% of non-members would take advantage of the early-early registration fee, the impact on the income is to reduce it by \$4,200 for an attendance of 1,200. The net projection is a surplus of \$40,500 (instead of the previous \$44,700), again for 1,200 attendees. Projections for different attendance is included in the budget submission. Of course the projections are dependent on the educated assumptions. This new fee structure would allow members to register below \$200 as required by INNS (at \$195 before February 1, 1992), and would encourage attendance by IEEE and INNS members.

I hope this revised budget meets with your approval. If that is the case, please send me written notice so that it is documented. At this time, planning for the conference is continuing, but any activity that requires the expenditure of conference funds is being suspended until written approval is received from both IEEE and INNS.

Naturally I assume the INNS is as interested in a successful IJCNN'92 as the IEEE. We would like to start printing the brochures by the end of May so that the brochures would be available for the Seattle meeting. Your expeditious approval of this revised budget is greatly appreciated.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Clifford Lau", written over a horizontal line.

Clifford Lau, IJCNN'92 Baltimore Chair



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO

May 10, 1991

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Gentlemen:

Earlier today I had sent you a revised budget for your approval. Based on the experience with the Seattle meeting, I made another budget analysis using a different set of assumptions.

I hereby submit another revised budget for IJCNN'92 Baltimore. The new registration fee structure still consists of three time periods as indicated in the budget: \$195 before March 30, 1992; \$245 before May 15; and \$295 after May 15 and on-site, all for members. There is a corresponding three-period fee structure for non-members. The net impact is that the projected surplus would be \$17,700 for 1,200 attendees (instead of the previous \$40,500). This new fee structure would allow those with accepted papers to register at the early-early registration rate of \$195 since we plan to send out notification of acceptance on March 6, 1992.

I hope this newly revised budget meets with your approval. If that is the case, please send me written notice so that it is documented. Again planning for the conference is continuing, but any activity that requires the expenditure of conference funds is being suspended until written approval is received from both IEEE and INNS.

Naturally I assume the INNS is as interested in a successful IJCNN'92 as the IEEE. We would like to start printing the brochures by the end of May so that the brochures would be available for the Seattle meeting. Your expeditious approval of this revised budget is greatly appreciated.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Clifford Lau".

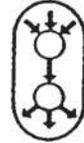
Clifford Lau
IJCNN'92 Baltimore Chair

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$501,400	\$563,550	\$625,700	\$687,850	\$750,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$551,400	\$613,550	\$675,700	\$737,850	\$800,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$17,700	\$52,850	\$85,800	\$116,550	\$147,300

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before March 30, 1992		\$195	\$235			
3	Before May 15, 1992		\$245	\$285	\$75		
4	After May 15, 1992		\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (20%)		\$46,800	\$54,600	\$62,400	\$70,200	\$78,000
16	Early - member (15%)		\$44,100	\$51,450	\$58,800	\$66,150	\$73,500
17	Early-early nonmem. (5%)		\$14,100	\$16,450	\$18,800	\$21,150	\$23,500
18	Early - nonmember (15%)		\$51,300	\$59,850	\$68,400	\$76,950	\$85,500
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (15%)		\$53,100	\$61,950	\$70,800	\$79,650	\$88,500
21	Late - nonmember (10%)		\$40,200	\$46,900	\$53,600	\$60,300	\$67,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$269,400	\$314,300	\$359,200	\$404,100	\$449,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial income - ave 2 ea	35% atter	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$501,400	\$563,550	\$625,700	\$687,850	\$750,000

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

TAB 18



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

DEAR MEMBERS OF THE IOC,

ATTACHED ARE COPIES OF RELEVANT CORRESPONDANCE SINCE THE LAST IOC MEETING.

AS PRESIDENT OF THE IEEE NEURAL NETWORKS COUNCIL, I REQUEST DISCUSSION OF THE FOLLOWING ITEMS AT THE IOC MEETING.

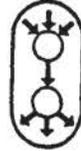
1. WHAT IS THE CURRENT STATUS THE MATTER DISCUSSED IN MY LETTER TO WERBOS DATED 3-1-91? THE LETTER AND CONFERENCE CALL-FOR-PAPERS IS ATTACHED.
2. WHAT IS THE STATUS OF THE FINANCES AND AUDIT ON THE WASHINGTON D.C. 1990 IJCNN? THE NNC HAS NOT YET RECEIVED THE AUDIT REPORT NOR HAS ALL OF THE SURPLUS FROM THE CONFERENCE BEEN DIVIDED BETWEEN OUR TWO SOCIETIES. THIS IS VIOLATION OF IEEE POLICY AND OUR AGREEMENT. IEEE POLICY IN THIS REGARD IS OUTLINED IN THE ATTACHED LETTER TO PSALTIS FROM DeWALD (6-10-91).
3. IN MY 4-22-91 LETTER TO WERBOS, THE SECOND BUDGET ADDENDUM SUGGESTED BY THE INNS IS REJECTED. MY UNDERSTANDING, HOWEVER, IS THAT THESE ITEMS HAVE BEEN ADOPTED BY THE CONFERENCE. HOW DOES THE IOC RECOMMEND RECONCILING THESE BUDGET DISCREPANCIES?
4. THE USE OF SEED MONEY BY INNS FROM CONFERENCE TO CONFERENCE WAS DISCUSSED AT THE LAST IOC AND WAS SPECIFICALLY ADDRESSED IN THE DISSOLUTION AGREEMENT. WHAT IS THE STATUS OF THIS MONEY?

A handwritten signature in black ink, appearing to read 'R. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

3-1-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134, Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dear Paul:

I enclose a flyer for a conference entitled *International Conference on Artificial Neural Networks in Engineering* to be held November 10-12, 1991 in St. Louis, Missouri. The INNS (Midwest Special Interest Group) is listed as a Co-sponsor. The Singapore IJCNN will be held the week after this conference.

Please note that paragraph 14 of the Agreement between our two Societies states, in part,

BOTH ORGANIZATIONS WILL REFRAIN FROM SPONSORING OTHER MAJOR ACTIVITIES IN THE FIELD OF ARTIFICIAL NEURAL NETWORKS WITHIN ONE MONTH OF EACH IJCNN. BOTH SOCIETIES MUST AGREE TO COOPERATE ON INVOLVEMENT IN ANY MAJOR NEURAL NETWORK CONFERENCE ACTIVITIES HELD WITHIN 30 DAYS OF AN IJCNN.

Since the Council is not participating in the conference, and since the title *International Conference* clearly identifies the intent of the organizers that this be both a major activity and a major conference, there is an apparent violation of the Agreement by the INNS.

I assume that this action took place without the knowledge or approval of the INNS Governing Board. On behalf of the Council ExCom, I call it to your attention with the hope that you will take immediate steps to return to compliance with the Agreement. Doing so, I believe, will make the joint effort of the INNS and the Council in Singapore more successful.

I look forward to your response.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Roy S. Nutter, IOC Chair
Mary Ann DeWald, IEEE Conference Services
NNC ExCom:
Russ Eberhart, NNC VP
Michael W. Roth, Transactions Ed.
Evangelia Tzanakou, Secretary
Patrick K. Simpson, NNC Treasurer

File

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Conference Tutorials

The organizing committee intends to arrange tutorials to be held in conjunction with the conference. Interested individuals should contact Dr. Cihan H. Dagli.

Exhibitors

Limited space will be available for companies or research institutions to display their work and products. Interested individuals should contact:

Walter Ries
Continuing Education
119 Mechanical Engineering Annex
University of Missouri-Rolla
Rolla, Missouri 65401
Phone (314) 341-4132 or 1-800-752-5057
FAX (314) 341-4992

Spouses' Programs

In conjunction with the conference, various tours and special events will be offered in and around the St. Louis area. Possible sites include the Gateway Arch, St. Louis Zoo, and historic St. Charles, etc.

Authors' Schedule

March 15, 1991
Deadline for contributed paper abstract and letter of intent

March 29, 1991
Deadline for invited session proposals

April 15, 1991
Initial notification of invited session status

June 14, 1991
Deadline for full papers

August 1, 1991
Notification of status of contributed papers and invited sessions

September 2, 1991
Deadline for camera-ready manuscripts



International Conference on
Artificial Neural Networks in Engineering,
ANNIE '91
University of Missouri-Rolla
Engineering Management Department
Rolla, Missouri 65401-0249

ANNIE '91

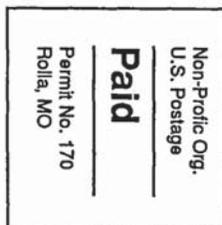
**International Conference
on
Artificial Neural Networks
in Engineering**

Call for Papers

**November 10-12, 1991
Marriott's Pavilion Hotel
St. Louis, Missouri**

Organized By:
Intelligent Systems Center
University of Missouri-Rolla
Rolla, Missouri

Co-sponsored by:
INNS, Midwest Special Interest Group, USA
McDonnell Douglas Corporation
Center for Optimization and Semantic Control,
Washington University in St. Louis



UNIVERSITY OF MISSOURI-ROLLA

ARTIFICIAL NEURAL NETWORKS IN ENGINEERING

The First International Conference on Artificial Neural Networks in Engineering ANNIE '91 will be held on November 10-12, 1991, at Marriott's Pavilion Hotel in downtown St. Louis, Missouri, USA. The organizing committee invites all persons interested in the applications of artificial neural networks in engineering to submit papers for presentation at the conference.

The conference will cover the theory of artificial neural networks and its applications in the engineering domain. The objective of the conference is to bring together researchers in the field of neural networks and exchange ideas on their applications to engineering problems. Presentations dealing with artificial neural network implementations in manufacturing, integration of artificial neural networks with expert systems, reinforcement learning, fuzzy associative memory and process control using artificial neural networks are encouraged.

Topics of Interest

The conference will cover the following, but not be restricted to the following topics:

- Artificial Neural Network Architectures
 - Associative Memory
 - Image Processing
 - Learning Algorithms
 - Artificial Neural Networks Applications in Manufacturing
 - Optimization
 - Robotics Control
 - Process Control
 - VLSI Construction
 - Artificial Neural Network Applications in Engineering
 - Modeling with Artificial Neural Networks
 - Hybrid Systems (AI, Artificial Neural Networks and Fuzzy Integration)
 - Genetic Algorithms
 - Performance Analysis
 - Algorithm Design Using Artificial Neural Networks
- Papers and workshop proposals relevant to these or closely related areas are invited.

Call for Contributed Papers

The organizing committee invites all persons interested in the applications of artificial neural networks in engineering to submit papers for presentation at the conference. All papers accepted for presentation will be published in the conference proceedings.

All papers will be reviewed for technical merit and content by senior researchers in the field to assure a high-quality conference and proceedings based on full paper submissions. Authors are requested to send a letter of intent and a 200 word abstract by March 15, 1991. Full papers are due on June 14, 1991. Authors will be notified of the status of their submittal by August 1, 1991 and camera-ready manuscripts will be due by September 2, 1991. Approximately six pages will be allocated for each accepted paper in the proceedings. Authors should forward their letter of intent, abstract and full paper to:

Dr. Cihan H. Dagli, General Chair
Engineering Management Department
205 Engineering Management Building
University of Missouri-Rolla
Rolla, Missouri 65401-0249
USA
(314) 341-4374
E-Mail: C3260@UMRVMB.BITNET

Call for Invited Sessions

Invited sessions are requested in the topics relevant to the conference. Interested individuals must submit a proposal, including the title of the session, title of papers, extended abstracts and a list of authors by March 29, 1991 to Dr. Cihan H. Dagli. Session organizers will be notified by April 15, 1991 regarding the appropriateness of their session. Full papers are due on June 14, 1991. Finalization of the session will be done by August 1, 1991 based on the result of the review process. Tutorials, perspective papers and case studies are highly encouraged for these sessions.

Organized by:

Intelligent Systems Center
University of Missouri-Rolla, USA

Co-sponsored by:

International Neural Networks Society, Midwest
Special Interest Group, USA
McDonnell Douglas Corporation, St. Louis, USA
Washington University, Center for Optimization and
Semantic Control, St. Louis, USA

Conference General Chairman:

Prof. Cihan H. Dagli, University of Missouri-Rolla, USA
Conference Co-chairmen:
Prof. Soundar Kumara, Pennsylvania State University,
Prof. Yung C. Shin, Purdue University, USA

Organizing Committee:

Prof. Nirmal K. Bose, Pennsylvania State University,
Prof. Bernard Dubuisson, University of Compiègne,
France
Prof. Chi-Ming Chang, Electronics Research and
Service Organization, Taiwan
Prof. George Dorffner, Austrian Res. Inst. for AI, Austria
Prof. Jim Garrett, Carnegie-Mellon University, USA
Prof. Inyong Ham, Pennsylvania State University, USA
Prof. Issam A. Hamid, University of Montreal, Canada
Prof. Susan I. Hruska, Florida State University, USA
Prof. S. S. Iyengar, Louisiana State University, USA
Prof. R. L. Kashyap, Purdue University, USA
Prof. H. Dean Keith, University of Missouri-Rolla, USA
Prof. Andrew Kusiak, University of Iowa, USA
Prof. Steven C-Y Lu, University of Illinois, USA
Mr. Thomas McTigue, McDonnell Douglas, USA
Prof. Pierre Morizet, University of Compiègne, France
Prof. Setsuo Ohsuga, University of Tokyo, Japan
Prof. Youchi Okabe, University of Tokyo, Japan
Prof. Yildirim Omurtag, University of Missouri-Rolla,
Prof. Gary K. Patterson, University of Missouri-Rolla,
Prof. Russell Pimmel, University of Missouri-Columbia,
Prof. Ervin Y. Rodin, Washington University, St. Louis
Prof. Steven K. Roger, Air Force Inst. of Technology,
Prof. Mohammed Sayeh, Southern Illinois University,
Mr. Patrick K. Simpson, General Dynamics, USA
Prof. Harold Szu, Naval Research Laboratory, USA
Prof. Robert Trappl, Austrian Res. Inst. for AI, Austria
Prof. Francis T. Yu, Pennsylvania State University, USA

Conference Coordinator:

Walter Ries, University of Missouri-Rolla



IEEE TECHNICAL ACTIVITIES

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

445 HOES LANE, P. O. BOX 1331, PISCATAWAY, NJ 08855-1331, U.S.A. (908) 562-3900 TELEX 833-233 FAX (908) 562-1571

(908) 562- 3873

June 10, 1991

Prof. Demetri Psaltis
California Inst. of Technology
Elec. Engrg. Dept., M/S 116-81
Pasadena, CA 91125

RE: **1991 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS (IJCNN
- '91 - Seattle, WA)
Meeting #2617**

Dear Prof. Psaltis:

Enclosed is IEEE's official acceptance of the submitted budget for the 1991 INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS (IJCNN - '91 - Seattle, WA), which is scheduled to be held in Seattle, WA on July 8 - 14, 1991.

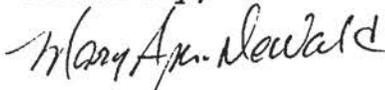
We would like to remind you that IEEE Policy Statement 10.9N requires submission of a preliminary financial report within approximately three (3) months after the close of the meeting and a detailed financial report is required no later than six (6) months after the conference.

Also, IEEE Policy Statement 10.24 requires that all IEEE sponsored or cosponsored conferences with actual budgeted income or expense of \$250,000 or more be audited by an independent professional auditor and that all conferences wholly sponsored by IEEE with actual or budgeted income or expense between \$100,000 and 250,000 have their financial records audited either by professional auditors or an audit committee composed of individuals who have no direct or indirect responsibility for the financial transactions of the conference. Further, all conferences wholly sponsored by IEEE with budgeted income or expense totaling \$75,000 or more must advise IEEE of the manner in which their financial records will be audited should their actual income or expense total \$100,000 or more.

Currently, the IEEE umbrella insurance policy applies to conferences in all Regions. However, if you plan to have any special tours, it is suggested that in Regions 1-7, you contact Mr. Charles Stewart, (212) 705-7769, at the New York Office. In Regions 8-10, inquire locally to determine whether additional insurance coverage is required.

If there are any questions regarding this budget acceptance, please feel free to contact me.

Sincerely,



Mary Ann DeWald
Administrator
Conference Services

cc: N. DeClariss
R. J. Marks ✓
E. Rosenberg
P. Sensi



THE INSTITUTE OF ELECTRICAL
AND ELECTRONICS ENGINEERS, INC.

IEEE

345 East 47th Street
New York, N.Y. 10017-2394, U.S.A.

TECHNICAL ACTIVITIES BOARD

CONFERENCE BUDGET ACCEPTANCE

Conference Name: 1991 International Joint Conference on Neural Networks
(IJCNN-91-Seattle, WA)
Meeting #2617

Dates: July 8-14, 1991 Location: Sheraton Seattle Hotel
Seattle, WA

GROSS CONFERENCE BUDGET	SPONSOR(S)/COSPONSOR(S)	% FINANCIAL SHARE
Receipts	\$449,000.00 (1&2) NN	50%
Expenses	\$371,645.00 (1) INNS	50%
Adv. loans	\$50,000.00	
Net Surplus	\$77,355.00	
Net % of Expenses	22%	

Remarks:

- (1) Advance loan(s) not included.
- (2) IEEE Headquarters agrees to purchase 1200 (2075 est. pgs. - 2700 print run) copies of Conference Proceedings at a cost of \$50.07 each.

ACCEPTANCE FOR S/C AND REGIONS AND SECTIONS

S/C/Reg/Sec Representative	S/C/Reg/Sec Affiliation	Letter Date	Phone Date
R. J. Marks	President - NNC	04/22/91	
D. Psaltis	Conference Co-Chairman	10/08/90	
N. DeClaris	Conference Co-Chairman	10/08/90	
*D. R. Schafer	Chairman, IEEE Seattle Section	10/02/90	

*Section Advised Information Only

Distribution:

Prof. Robert J. Marks, II
Dept. of Elec. Engrg.
University of Washington
MS FT-10
Seattle, WA 98195

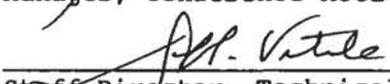
Prof. Demetri Psaltis
California Inst. of Technology
Elec. Engrg. Dept., M/S 116-81
Pasadena, CA 91125

Prof. Nicholas DeClaris
8518 Beauford Drive
Fulton, MD 20759

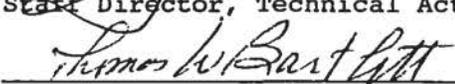
ACCEPTANCE FOR IEEE



Manager, Conference Activities 05/28/91 Date



Staff Director, Technical Activities 5/30/91 Date

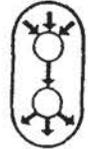


Associate General Manager 6/10/91 Date

cc: IEEE Controller's Office



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

February 5, 1991

Laura Jobmann
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Laura:

The attached budget for the 1991 International Conference on Neural Networks has been approved by the NNC Ad Com at the 1250 projected attendance level.

Sincerely,



Robert J. Marks II, President
IEEE Neural Network Council

RJM:rw

cc: Patrick K. Simpson, NNC Treasurer
Evangelia Tzanahan, NNC Secretary
Roy Nutter, NNC Meetings Committee Chair
IOC Chair
Russ Eberhart, NNC VP
Paul Werbos, INNS

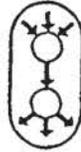
enclosure

RFP



IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

4-22-91

RECEIVED

APR 23 1991

CONFERENCE SERVICES
DEPARTMENT

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul,

I recently received a proposal for the Council to addend the budget of the Seattle IJCNN to allow an additional \$13,600 for the purpose of publishing abstracts of papers which had previously been rejected. The specific proposal was

Publishing:	\$6000 to \$8000
Meeting Management:	\$2500 to \$5000
Poster boards:	\$600

At its ExCom Meeting on April 22nd, the Council ExCom unanimously rejected this request.

The Council would favorably entertain a budget addendum whereby additional refereed papers would be published in their entirety with the same status as those papers already accepted. The Council recognizes that this will result in an expenditure far in excess of \$13k.

Sincerely,

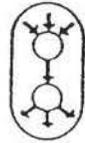
Robert J. Marks II, President
IEEE Council on Neural Networks

P.S. I ask that any other actions by the INNS which effect the Council be communicated, in writing, either to the IOC Chair or me, as appropriate.

cc:	Roy Nutter, IOC Chair	NNC ExCom
	✓ Laura Jobmann, IEEE TAB	David Rumelhart, Sea IJCNN Chair
	George Lendaris, Seattle IJCNN Finance Chair	Mary Ann DeWald, IEEE Conf. Ser.
	Sarah Eck, University of Washington Conference Services	



NEURAL NETWORKS COUNCIL



Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 5, 1991

IEEE Conference Services
Attention: Mary Ann DeWald
P.O. Box 1331
Piscataway, NJ 08855-1331

I recently forwarded a budget for the IJCNN but neglected to append an addendum approved by the Council's AdCom in January. Please addend the budget with \$20,000 in additional expenses categorized as follows:

\$ 2,500	Tutorial Administrative Costs
5,000	Seattle Program Committee Meeting, March 13, 1991
<u>12,500</u>	Additional funds for Tutorial Speakers
\$20,000	Total

Sincerely,

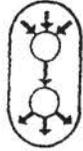
Robert J. Marks II, President
Neural Networks Council

cc: George Lendaris, Seattle IJCNN Finance Chair
Paul Werbos, INNS
Russ Eberhart, Neural Networks Council Vice President
Patrick K. Simpson, Neural Networks Council Treasurer
Evangelia Tzanakou, Neural Networks Council Secretary

RECEIVED
MAR 8 - 1991
CONFERENCE SERVICES
DEPARTMENT



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

February 5, 1991

Laura Jobmann
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Laura:

The attached budget for the 1991 International Conference on Neural Networks has been approved by the NNC Ad Com at the 1250 projected attendance level.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Neural Network Council

RJM:rw

cc: Patrick K. Simpson, NNC Treasurer
Evangelia Tzanahan, NNC Secretary
Roy Nutter, NNC Meetings Committee Chair
IOC Chair
Russ Eberhart, NNC VP
Paul Werbos, INNS

enclosure

UCNN-91-SEATTLE Expense Budget

8-Oct-91 Number of Attendees MARKETING/PROMOTION	1250	1500	1750	2000	2250	2500	2750	3000
Brochure Printing (75000)	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Mailing (50000)	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900	\$10,900
Mailing Lists (25000)	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125
Advertisements	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Public Relations/Press	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Miscellaneous Promotion	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Total Marketing	\$75,025							
SOCIAL FUNCTIONS								
Tuesday Eve Reception	\$15,625	\$18,750	\$21,875	\$25,000	\$28,125	\$31,250	\$34,375	\$37,500
Coffee Breaks	\$9,375	\$11,250	\$13,125	\$15,000	\$16,875	\$18,750	\$20,625	\$22,500
Press Functions	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Total Social Functions	\$35,000	\$40,000	\$45,000	\$50,000	\$55,000	\$60,000	\$65,000	\$70,000
REGISTRATION EXPENSES								
Credit Card Fees	\$2,578	\$3,093	\$3,609	\$4,124	\$4,640	\$5,155	\$5,671	\$6,186
Attendee Packet	\$12,513	\$14,300	\$16,088	\$17,875	\$19,663	\$21,450	\$23,238	\$25,025
Final Program	\$9,625	\$11,000	\$12,375	\$13,750	\$15,125	\$16,500	\$17,875	\$19,250
Meeting Mgr On-Site Exp	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Phone/Postage/Etc.	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Meeting Mgr Fee	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Total Reg. Expenses	\$57,466	\$67,393	\$77,321	\$87,249	\$97,177	\$107,105	\$117,033	\$126,961
MEETING RENT & FEES	\$30,000							
PUBLICATION EXPENSES								
Review Expenses	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900	\$17,900
Proceedings Publication	\$31,250	\$37,500	\$43,750	\$50,000	\$56,250	\$62,500	\$68,750	\$75,000
Posters & Preim Program	\$10,375	\$11,500	\$12,625	\$13,750	\$14,875	\$16,000	\$17,125	\$18,250
Total Pub Expenses	\$59,525	\$66,900	\$74,275	\$81,650	\$89,025	\$96,400	\$103,775	\$111,150
ADMINISTRATION EXPENSES								
Insurance/Bonding	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Security & Guards	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Audio/Visual Equipment	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500
Office Equip (fax, copy, etc.)	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Signage/Forms	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Telephone	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Auditing	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
Bookkeeping/Finance	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Total Admin Expenses	\$48,500							
SEED MONEY TO 92 CONF	\$50,000							
COMMITTEE EXPENSES								
Tutorial Speaker Fees	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500
Travel Expenses, Tutorial	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550	\$7,550
Plenary Speaker Travel	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500
Committee Travel	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
2 Comp Suites (INNS/IEEE)	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280	\$5,280
Committee Phone Expenses	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Fax/Express Mail	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
Total Comm. Expenses	\$30,330							
EXHIBIT EXPENSES								
Hall Rental	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000
Exhibit Management	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Exhibit Coordination & Marketing	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800	\$13,800
Total Exhibit Expenses	\$37,800							
Total Conference Expenses	\$421,648	\$443,948	\$466,251	\$488,554	\$510,857	\$533,160	\$555,463	\$577,766

Officially Submitted Budget

p. 1 of 2

Revised

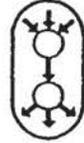
8-Oct-90

UCNN-91-Seattle REVISED Budget Income

	Member	Non-Member	Student					
Early Pre-Reg Fee	\$195	\$275	\$50					
Late Pre-Reg Fee	\$200	\$295	\$75					
On-Site Reg Fee	\$305	\$405	\$50					
Tutorial Fee	\$105	\$105	\$55					
One-Day Fee	\$125	\$175						
Number of Attendees	1250	1500	1750	2000	2250	2500	2750	3000
Registration Income								
Member Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Non-Mem Early Pre-Reg	\$34,125	\$40,950	\$47,775	\$54,600	\$61,425	\$68,250	\$75,075	\$81,900
Member Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Non-Mem Late Pre-Reg	\$51,625	\$61,950	\$72,275	\$82,600	\$92,925	\$103,250	\$113,575	\$123,900
Member On-Site	\$69,125	\$82,950	\$96,775	\$110,600	\$124,425	\$138,250	\$152,075	\$165,900
Non-Member On-Site	\$86,625	\$103,950	\$121,275	\$138,600	\$155,925	\$173,250	\$190,575	\$207,900
Student Early	\$4,375	\$5,250	\$6,125	\$7,000	\$7,875	\$8,750	\$9,625	\$10,500
Student On-Site	\$8,313	\$9,975	\$11,638	\$13,300	\$14,963	\$16,625	\$18,288	\$19,950
Member One-Day	\$1,563	\$1,875	\$2,188	\$2,500	\$2,813	\$3,125	\$3,438	\$3,750
Non-Mem One-Day	\$2,188	\$2,625	\$3,063	\$3,500	\$3,938	\$4,375	\$4,813	\$5,250
Tot Regis. Income	\$343,688	\$412,425	\$481,163	\$548,900	\$618,638	\$687,375	\$756,113	\$824,850
Conference Promo Sales	\$1,125	\$1,350	\$1,575	\$1,800	\$2,025	\$2,250	\$2,475	\$2,700
Exhibitor	\$50,000							
Exhibitor Ads	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Other Income								
Interest	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Advance from INNS	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Hotel Room Surcharge	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500
Social Func. Tickets	\$875	\$1,050	\$1,225	\$1,400	\$1,575	\$1,750	\$1,925	\$2,100
Tutorial Fees	\$27,563	\$33,075	\$38,588	\$44,100	\$49,613	\$55,125	\$60,638	\$66,150
TOTAL INCOME	\$499,000	\$573,650	\$644,300	\$722,950	\$797,600	\$872,250	\$946,900	\$1,021,550
TOTAL EXPENSES	\$421,645	\$443,948	\$466,251	\$488,554	\$510,857	\$533,160	\$555,463	\$577,766
NET SURPLUS	\$77,355	\$129,702	\$182,049	\$234,396	\$286,743	\$339,090	\$391,437	\$443,784
SURPLUS plus SEED MONEY	\$127,355	\$179,702	\$232,049	\$284,396	\$336,743	\$389,090	\$441,437	\$493,784

revised

Officially Submitted
 Budget, p.2 of 2



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-1-91

Peri Sensi, Manager
IEEE Conference Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
201-562-3873
FAX: 201-562-1571

Dear Peri,

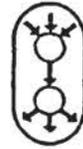
You have N. DeClaris and D. Psaltis listed as the Co-Chairs for the 1991 IJCNN. This is incorrect. The Chair is Dr. David Rumelhart at Stanford.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

cc: IOC



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

March 7, 1991

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director, Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D. C. 20550

Dear Paul:

Could you please let me know about the status of the request I made in the attached letter? As you know, the time will soon be here when publicity concerning the Singapore IJCNN is no longer effective.

Best regards,

Robert J. Marks II, President
IEEE Neural Networks Council

RJM:rw

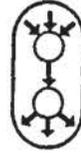
Enclosure

bc: Russ Eberhart, NNC VP
Teck Sing Low, IJCNN Singapore Chair

File



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

12-29-90

Dr. Paul J. Werbos, President-Elect
International Neural Network Society
Program Director, Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I need your help.

As you know, all IJCNN's thusfar have been publicized in the *IEEE Transactions on Neural Networks* as full page ads. This publicity was given without charge to either the INNS or the Council. This is as it should be.

Enclosed is a copy of an announcement for the Singapore IJCNN. In a spirit of parity, I request that it be included in the next available issue of the INNS journal. I hope that the enclosed copy is of camera-ready quality. If not, please let me know.

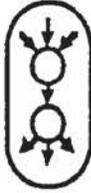
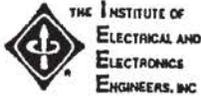
I would appreciate if you would let me know in which issue the announcement will appear.

Best regards,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II'.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Bernie Widrow, INNS President
Steven Grossberg, INNS Editor
Teck-Seng Low, Singapore IJCNN Chair
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President



INNS
INTERNATIONAL
NEURAL NETWORK
SOCIETY



IJCNN'91 SINGAPORE

INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS

WESTIN STAMFORD & WESTIN PLAZA - SINGAPORE, NOVEMBER 18-21, 1991

Call For Papers

CONFERENCE

The IEEE Neural Networks Council and the International Neural Networks Society (INNS) invite all persons interested in the field of Neural Networks to submit **FULL PAPERS** for possible presentation at the Conference. **FULL PAPERS** must be received by 31 May 1991. All submissions will be acknowledged by mail. Authors should submit their work via Air Mail or Express Courier so as to ensure timely arrival. Papers will be reviewed by senior researchers in the field, and all papers accepted will be published in full in the Conference Proceedings. The Conference hosts tutorials on Nov 18 and tours arranged probably on Nov 17 and Nov 22, 1991. Conference sessions will be held from Nov 19-21, 1991. Proposals for tutorial speakers & topics should be submitted to Professor Toshio Fukuda (address below) by Nov 15, 1990.

TOPICS OF INTEREST

Original, basic and applied papers in all areas of Neural Networks & their applications are being solicited. **FULL PAPERS** may be submitted for consideration as oral or poster presentations in (but not limited to) the following sessions:

- *Associative Memory*
- *Electrical Neurocomputer*
- *Image Processing*
- *Invertebrate Neural Networks*
- *Machine Vision*
- *Neurocognition*
- *Neuro-Dynamics*
- *Optical Neurocomputers*
- *Optimization*
- *Robotics*
- *Sensation & Perception*
- *Sensorimotor Control System*
- *Supervised Learning*
- *Unsupervised Learning*
- *Neuro-physiology*
- *Hybrid System (AI, Neural Networks, Fuzzy System)*
- *Mathematical Methods*
- *Applications*

AUTHORS' SCHEDULE

Deadline for submission of FULL PAPERS (Camera ready)	31 May 1991
Notification of acceptance	31 Aug 1991

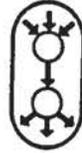
SUBMISSION GUIDELINES

Eight copies (One original and seven copies) are required for submission. Do not fold or staple the original, camera-ready copy. Papers of no more than 6 pages, including figures, tables, and references, should be written in English and only complete papers will be considered. Papers must be submitted camera-ready on 8 1/2" x 11" white bond paper with 1" margins on all four sides. They should be prepared by typewriter or letter quality printer in one-column format, single spaced or similar type style of 10 points or larger and should be printed on one side of the paper only. FAX submissions are not acceptable. Centred at the top of the first page should be the complete title, author name(s), affiliation(s) and mailing address(es). This is followed by a blank space and then the abstract, up to 15 lines, followed by the text. In an accompanying letter, the following must be included:

<i>Corresponding author:</i>	<i>Presentation preferred:</i>	<i>Technical Session:</i>	<i>Presenter:</i>
Name	Oral	1st Choice	Name
Mailing Address	Poster	2nd Choice	Mailing Address
Telephone & FAX number			Telephone & FAX number
For submissions from Japan send to:	For submissions from USA send to:		For submissions from rest of the world send to:
Professor Toshio Fukuda Programme Chairman IJCNN'91 SINGAPORE Dept of Mechanical Engineering Nagoya University, Furo-cho, Chikusa-Ku Nagoya 464-01 Japan.	Ms Nomi Feldman Meeting Management 5565 Oberlin Drive, Suite 110 San Diego CA 92121. Fax: 619-535-3880		Dr Teck-Seng, Low IJCNN' 91 SINGAPORE Communication Intl Associates Pte Ltd 44/46 Tanjong Pagar Road Singapore 0208 Tel: (65) 226-2838 Fax: (65) 226-2877, (65) 221-8916
Fax: 81-52-781-9243			



COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
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Fax: (206) 543-3840
marks@blake.acs.washington.edu

1-30-91

Dr. Paul J. Werbos, President
International Neural Network Society
Program Director
Neuroengineering
Room 1134
Division of Emerging Technologies
National Science Foundation
Washington, D.C. 20550

Dear Paul:

I have been directed by the NNC AdCom to approve the appointment of David Rumelhart as the General Chair of the 1991 Seattle IJCNN.

I hereby do so.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert J. Marks II', with a large, sweeping flourish at the end.

Robert J. Marks II, President
IEEE Council on Neural Networks

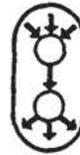
cc: Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Roy Nutter, NNC Meetings Chairman
Laura Jobmann, IEEE Conference Services

File



IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

3-15-91

Dr. George Lendaris, Finance Chair
'91 Seattle IJCNN
FAX 503-725-4882

Dear George,

I wanted to quickly follow up on our phone conversation. The Agreement between the INNS and the Council states that

SPEAKERS (EXCEPT FOR TUTORIAL SPEAKERS) ARE NOT COMPENSATED FOR THEIR PRESENTATIONS. PLENARY SPEAKERS WILL NORMALLY HAVE THEIR TRAVEL EXPENSES PAID. IN ADDITION, THE GENERAL CHAIR(S), THE PROGRAM CHAIR(S), AND THE FINANCE CHAIR(S) CAN HAVE THEIR TRAVEL EXPENSES PAID. THE CONFERENCE COMMITTEE WILL SET SPECIFIC ARRANGEMENTS IN ACCORDANCE WITH THE POLICIES OF BOTH INNS AND IEEE. COMPENSATION FOR TUTORIAL SPEAKERS SHALL BE CONSISTENT WITH THE POLICIES OF IEEE AND INNS. INVITED SPEAKERS MAY HAVE THEIR TRAVEL EXPENSES PAID. THE NUMBER OF INVITED SPEAKERS WHO HAVE THEIR EXPENSES PAID SHOULD IN NO CASE EXCEED 1% OF THE BEST ESTIMATE OF THE NUMBER OF CONFERENCE REGISTRATIONS. ALL OTHER EXPENSES REIMBURSEMENTS ARE EXCLUDED UNLESS SPECIFICALLY COVERED BY A LINE ITEM IN THE APPROVED CONFERENCE BUDGET. REGISTRATION FEES FOR KEYNOTE AND PLENARY SPEAKERS ARE WAIVED. REGISTRATION FEES FOR ALL PERSONS WHOSE TRAVEL EXPENSES ARE REIMBURSED BY THE CONFERENCE WILL BE AT THE STUDENT RATE.

As I have informed Dr. Werbos by previous correspondance, the Council has approved a budget with 1250 estimated attendees. Therefore, according to the Agreement, no more that 12 invited speakers can have their way paid. These, and all other expenses must, of course, be included in the budget approved by both the INNS and the IEEE. Note that the Agreement allows for reduction, but not waiving of the registration fee. Deviations from the Agreement can be inacted by joint approval of both the NNC and INNS.

Sincerely,

Robert J. Marks II, President
IEEE Council on Neural Networks

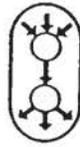
cc: David Rumelhart, IJCNN '91 Chair
Paul Werbos, INNS President
Roy Nutter, IOC Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

TAB 19



NEURAL NETWORKS COUNCIL



Roy S. Nutter, Jr.
Chair, Meetings Committee

PLEASE REPLY TO:
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506 USA
Tel: (304) 293-6371, ext-~~26~~ 510
FAX: (304) 293-5024
e-mail: rsn@a.coe.wvu.wvnet.edu

June 14, 1991

NNC Meetings Committee Members

Dear Committee Members:

Enclosed are proposals for Neural Networks forums. Please review before our meeting on Sunday, July 7, from 6 to 9:00 pm.

We need to discuss at the meeting as part of our agenda Fuzz-IEEE '92 budget. We also need to discuss the World Congress '94 budget and coordinating officers. If you have further agenda items, please contact me by e-mail or by U.S. Mail.

Sincerely,

A handwritten signature in cursive script that reads "Roy S. Nutter".

Roy S. Nutter, Chair
Meetings Committee

RSN/ksrg
Enc.



**University
of Virginia**

Department of Systems Engineering
Thornton Hall • Charlottesville, Virginia 22903-2442
804-924-5393 • Fax 804-982-2972

*Recd 6/3/91
RSN*

May 28, 1991

Prof. Roy S. Nutter
West Virginia University
821 Electrical Engineering
P.O. Box 6101
Morgantown, WV 26506

Dear Roy:

Enclosed is a proposal for the Symposium on Combining Genetic Algorithms and Neural Networks. We propose that this symposium be held in conjunction with the IJCNN in Baltimore. Please let me know if you require any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'DEB', with a long horizontal flourish extending to the right.

Donald E. Brown
Associate Professor
deb@Virginia.edu

Proposal for a Symposium on Combining Genetic Algorithms and Neural Networks

Submitted by
Donald E. Brown and Russell Eberhart

May 28, 1991

Purpose of the Meeting:

The purpose of the Neural Networks Council is to advance and coordinate work in the field of neural networks conducted throughout the IEEE. Our interest in neural networks is broad in scope and encompasses their relationships to other paradigms for intelligent systems, to include, genetic algorithms. Genetic algorithms draw on analogies to evolution in the same manner that neural networks draw on analogies to biological information processing and both approaches seek to derive systems capable of adapting and responding within complex environments. There is currently burgeoning interest by researchers and practitioners in both fields in the union of neural networks and genetic algorithms. As a means to build upon this work and strengthen the relationship between the two fields we propose that the Neural Networks Council sponsor a workshop on the combination of genetic algorithms and neural networks in conjunction with the IJCNN in Baltimore on June 6, 1992.

Meeting Location: Baltimore Convention Center, Baltimore, Md.

Organizing Committee

Symposium Chair:	David Schaffer, Phillips Labs
Program Chairs:	Darrell Whitley, Colorado State Univ.; David Schaffer, Phillips Labs; and Russell Eberhart, Johns Hopkins
Publications Chair:	Donald Brown, University of Virginia
Finance Chair:	Gil Syswerda, BBN
Local Arrangement:	Russell Eberhart, Johns Hopkins, APL
Publicity Chair:	Donald Brown, University of Virginia

Meeting Management:

Meeting Management, Nomi Feldman, 5665 Oberlin Drive, Suite 110,
San Diego, CA 92121

Budget:

A budget is being prepared for an estimated 100 fully paid registrants and 20 students. We currently expect the following costs:

Meeting site (lunch and two coffee breaks):	\$2500
Publicity:	\$2500
Proceedings:	\$2500
Audio/Visual:	\$500

The income will be from registrations at a planned fee of \$75 for IEEE members (& GA Society Members?), \$85 for nonmembers for early registration and \$85 and \$95 for late registration. Student registration will be \$40 and will not include the lunch but will include the proceedings.

Related Meetings:

The Fourth International Conference on Genetic Algorithms, July 13-16, 1991.

Workshop on Foundations of Genetic Algorithms (being planned for Summer 1992)

Conference on Parallel Problem Solving from Nature (PPSN) (being planned for Summer 1992)

Potential Cooperating Societies

International Society for Genetic Algorithms
IEEE Systems, Man, and Cybernetics
IEEE Computer Society

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

May 29, 1991

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, WV 26506

Dear Professor Nutter:

Attached is our proposal for the IEEE Neural Networks Council Forum on "Applications of Artificial Neural Network (ANN) Technology to Electromagnetic Inverse Problems and Remote Sensing." Your attention will be appreciated.

Sincerely,



Akira Ishimaru
Professor

AI/nh

Attachment

Proposed
IEEE Neural Networks Council Forum

on

**APPLICATIONS OF ARTIFICIAL NEURAL NETWORK (ANN)
TECHNOLOGY TO ELECTROMAGNETIC INVERSE
PROBLEMS AND REMOTE SENSING**

by

Akira Ishimaru
Leung Tsang
Jenq-Neng Hwang
Thomas A. Seliga
Chi Hou Chan

Department of Electrical Engineering
University of Washington
Seattle, Washington 98105

Submitted to

Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
P.O. Box 6101
Morgantown, West Virginia 26506

1. SUMMARY OF THE PROPOSAL

We propose to hold a forum specifically devoted to the application of artificial neural network techniques to electromagnetic inverse problems and remote sensing problems. The forward problem in electromagnetic scattering is the determination of fields and waves given the parameters of the media and it has been studied extensively in the past. The inverse problem is to calculate the target or media parameters from given or measured field data and is more difficult because of the highly nonlinear relations between the fields and media parameters. Also in remote sensing, voluminous amounts of data are collected over a short period of time and it is important to develop efficient and speedy inverse algorithms. It is anticipated that with the use of artificial neural networks (ANN), efficient and speedy algorithms can be developed to solve nonlinear inverse problems in electromagnetics.

The forum on "Applications of Artificial Neural Network (ANN) Technology to Electromagnetic Inverse Problems and Remote Sensing" is proposed to assemble engineers and scientists interested in this problem in order to promote the advancement of the technology, to encourage cross disciplinary exchange between the electromagnetic and ANN communities, and to broaden the scope of ANN and electromagnetic technologies.

At the University of Washington, Professor Robert J. Marks, II is a leading expert on ANN and he is president of the IEEE Council on Neural Networks. Professors Ishimaru, Tsang, Hwang, and Chan are active in ANN applications in electromagnetics and were awarded an NSF grant entitled "Solution of Inverse Problems in Electromagnetic and Optical Propagation Using Artificial Neural Networks" this year. Professor Seliga has employed ANN in his research on microwave remote sensing of precipitation.

2. PLAN

The forum would be held in Seattle in November 1992. Leading experts from the United States and from abroad will be invited to participate. It is expected that approximately 50 people would participate. Selected papers would be published in the Proceedings of the IEEE NNC.

One of the objectives of this forum would be to introduce ANN technology to the electromagnetics community. Therefore, experts in ANN and experts in electromagnetics

will be invited for an exchange of ideas. Tutorial papers by ANN experts will be included in the program to introduce ANN to the electromagnetics experts. It is anticipated that many electromagnetics people will attend the forum to learn ANN for their own applications.

3. BUDGET

IEEE budget form is attached.

4. FORUM ORGANIZING COMMITTEE

Akira Ishimaru	General Chair
Leung Tsang	Finance Chair
Jenq-Neng Hwang	Local Arrangements Chair
Chi Hou Chan	Publicity Chair
Leung Tsang	Technical Program Chair
Robert J. Marks, II	Publications Chair
Thomas A. Seliga	International Liaison Advisor
Jan Kvamme	Engineering Continuing Education

CV's of Ishimaru and Tsang are attached.

5. MANAGEMENT

The forum will be managed by the University of Washington Engineering Continuing Education Program.

6. ENDORSEMENT

Letter from Robert J. Marks II, President, NNC is attached.

SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference Applications of Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing
2. Dates of Conference November 11 - 13, 1992
3. Location of Conference (full name and address) Seattle, Washington

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
[X] Budget [] Interim Report [] Final Report
5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: Conversion rate: Date of conversion rate:

INCOME

Table with 4 columns: Item, Budget, Interim Report, Final Report. Rows include Registration Fees, Conference Publication Sales, Exhibits, Social Functions, All Other Conference Receipts, Total Conference Income, Advance Loans, Total Receipts.

EXPENSE

Table with 4 columns: Item, Budget, Interim Report, Final Report. Rows include Promotion, Conference Publications, Exhibits, Social Functions, Administration, All Other Conference Expenses, Total Conference Expense, Loan Repayments, Total Outlays.

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 40,750
24. Total Outlays (22) \$ 36,912
25. Surplus (Loss) - (Item 23 less Item 24) \$ 3838

POST CONFERENCE DISTRIBUTION

Table with 3 columns: Cosponsor Entity, % Share, \$ Distributed. Rows include IEEE Neural Networks Council, University of Washington, and Surplus (Loss) \$ 3838.

CONFERENCE FINANCIAL INSTITUTION

Name of Bank Engineering Continuing Education, University of Washington
Address GG-13, Seattle, WA 98195
Conference Account Title Account No.
Have you requested IEEE Conference Insurance? [] Yes [X] No

SUBMITTED BY:

me Akira Ishimaru Tel. No. (206) 543-2169
Address FT-10, University of Washington, Seattle, WA 98195
Conference Position General Chair

SIGNATURE [Signature] Date 5-29-91

Draft Budget

REVENUE

REGISTRATION FEES

Member	50 @ 140.00	7,000.00	
Late Member	20 @ 180.00	3,600.00	
Student	5 @ 30.00	150.00	10,750.00

TUTORIAL REGISTRATION FEES	0 @ 0.00	0.00	0.00
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EXTRA TICKETS

Special Event	0 @ 0.00	0.00	0.00
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EXHIBITS			0.00
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CONTRIBUTIONS

NSF (tentative)			15,000.00
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ADVANCE LOANS

			0.00
UW Engineering Continuing Educaion			7,500.00
IEEE Neural Networks Council			7,500.00

GROSS REVENUE				\$40,750.00
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LESS INDIRECT REVENUE CHARGES

Bank Card Service Charge		53.75	
UW Indirect Cost @ 6.5%		656.10	709.85

NET REVENUE				\$40,040.15
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EXPENSES

PROMOTION

Call for Papers			
Design		100.00	
Printing (15,000)		2,250.00	
Postage		3,610.00	
Mailing Labels		690.00	
Mailing Services		300.00	6,950.00

Advance Program			
Pre-Publication & Printing (500)		250.00	
Postage		251.50	501.50

Final Program Printing		100.00	100.00
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Advertising		0.00	0.00	\$7,551.50
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CONFERENCE PUBLICATIONS

Proceedings				
Pre-publication and printing		2,000.00	2,000.00	\$2,000.00

LOCAL ARRANGEMENTS / FACILITIES

Meeting Room Rental			1,000.00	
Audio Visual Equipment			500.00	
Registration Tables			200.00	
Poster Boards			0.00	
Exhibit Expenses			0.00	
Shuttle Buses			0.00	

Catering

Special Event	0 @	0.00	0.00	
Reception	75 @	20.00	1,500.00	
Coffee Breaks, Refreshments	75 @	10.00	750.00	
Luncheon	75 @	18.00	1,350.00	
VIP Dinner or Meeting			0.00	3,600.00
				\$5,300.00

COMMITTEE EXPENSES

Local Committee Expenses				0.00
Invited Speaker Travel				0.00
				\$0.00

TUTORIALS

Tutorial Expenses				0.00
				\$0.00

MISCELLANEOUS

Conference Materials				
Nametags	75 @	1.00	75.00	
Confirmation Packets	75 @	1.00	75.00	
Registration Packets - maps & info.	75 @	2.00	150.00	
Portfolio/Souvenirs	75 @	0.00	0.00	
Tickets/Attendance Roster	75 @	2.00	150.00	450.00
General Office				
Postage, Express Mail and Freight			200.00	
Telephone / Telex / Fax			200.00	
Trucking			200.00	
Parking			100.00	
Letterhead & envelopes (customized)			100.00	
Copier Rental / copies			100.00	900.00
				\$1,350.00

CONFERENCE MANAGEMENT			5,000.00	\$5,000.00
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TOTAL CONFERENCE EXPENSES				\$21,201.50
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LOAN REPAYMENTS			15,000.00	\$15,000.00
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BALANCE				\$3,838.65
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AKIRA ISHIMARU

BIOGRAPHICAL SKETCH

Akira Ishimaru was born on March 16, 1928 in Fukuoka, Japan; he became a naturalized U.S. citizen in 1963. He received the B.S. degree from the University of Tokyo, Japan, in 1951 and the Ph.D. degree from the University of Washington, Seattle, in 1958.

From 1951 to 1952, Dr. Ishimaru was with the Electrotechnical Laboratory, Tanashi, Tokyo. During the summer of 1956, he was employed at Bell Laboratories, Holmdel, New Jersey, working on antenna problems. During 1963-1964, he was a visiting associate professor of electrical engineering at the University of California, Berkeley. He is now a professor of electrical engineering and adjunct professor of applied mathematics at the University of Washington. He is a registered professional engineer in the state of Washington.

Dr. Ishimaru has conducted studies in many areas of antennas and propagation including pattern synthesis, unequally spaced arrays, leaky waves, periodic structures, anisotropic media, and waves in random media. He is the author of *Wave Propagation and Scattering in Random Media* (Academic Press) which was translated into Russian and Chinese and *Electromagnetic Wave Propagation, Radiation, and Scattering* (Prentice-Hall, 1991). He contributed to *Antenna Theory*, edited by R. E. Collin and F. J. Zucker (McGraw-Hill), with "Antenna Pattern Synthesis" (chapter 7), to *Topics in Applied Physics*, vol. 25, *Laser Beam Propagation Through the Atmosphere*, edited by J. W. Strohbehn (Springer-Verlag), and to *Handbook in Applied Meteorology*, edited by D. D. Houghton (John Wiley and Sons), with "Wave Propagation" (chapter 37). Dr. Ishimaru is a principal investigator directing research on wave propagation and scattering, random media, and multiple scattering supported by ONR, ARO, NSF, and NBS.

Dr. Ishimaru has served as a U.S. delegate to general assemblies of URSI and has served on various government panels and committees including NASA Advanced Interplanetary Communication Systems and the National Academy of Sciences Committee on Atmospheric Sciences. He has served as a member of the Committee of Recommendations for U.S. Army Basic Research.

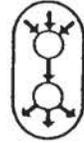
Dr. Ishimaru has served as a Member-at-Large of the U.S. National Committee (USNC) and as chairman (1985-1987) of Commission B of the USNC/International Union of Radio Science (URSI). He served as an Associate Editor of *Radio Science* for six years (1972-1978) and as Editor (1979-1982). He is a Fellow of the Optical Society of America and was an Associate Editor of the *Journal of the Optical Society of America* (1980-1983). He is an Administrative Committee Member of the IEEE Antennas and Propagation Society (1988-1992) and has served as Chairman of the Education Committee and the Awards and Fellows Committee. He is a Fellow of the IEEE and has served as a member of the Editorial Board of the *Proceedings of the IEEE*. He is Editor-in-Chief of the journal, *Waves in Random Media*, Institute of Physics, United Kingdom. Dr. Ishimaru was the recipient of the 1968 IEEE Region VI Achievement Award. He was a Distinguished Lecturer of the IEEE Antennas and Propagation Society for 1976-1977 and an IRMA-RUNYON Distinguished Lecturer of Texas A & M University, 1982. He received the IEEE Centennial Medal in 1984 and the Burlington Northern Faculty Achievement Award for Outstanding Research, College of Engineering, University of Washington in 1990.

LEUNG TSANG
BIOGRAPHICAL SKETCH

Dr. Leung Tsang is presently professor of electrical engineering at the University of Washington, Seattle, Washington. Before joining the University of Washington in 1983, he was a faculty member for three years (1980-1983) with the Electrical Engineering Department of Texas A & M University, College Station, Texas.

Leung Tsang was born in Hong Kong. He became a naturalized U.S. citizen in 1988. He received the B.S. degree (1971), the M.S. degree (1973), and the Ph.D. degree (1976) from the Department of Electrical Engineering and Computer Science of the Massachusetts Institute of Technology, Cambridge, Massachusetts. From 1976 to 1978, he worked as a research engineer at the Schlumberger-Doll Research Center, Ridgefield, Connecticut, conducting research in acoustic and electromagnetic well-logging methods in oil exploration. His current research interests are in microwave remote sensing and wave scattering and propagation in random inhomogeneous media and materials. He is a Fellow of the IEEE, a member of the AGU, the Electromagnetics Academy, the Optical Society of America, Sigma XI, and Commissions B and F of the International Union of Radio Science. He is presently an Associate Editor of *Radio Science*, an Associate Editor of the *IEEE Transactions on Geoscience and Remote Sensing*, and also serves on the editorial board of the *Journal of Electromagnetic Waves and Applications* and the journal *Waves in Random Media*.

Dr. Tsang is coauthor of the book, *Theory of Microwave Remote Sensing*, published by Wiley-Interscience (1985) and is the author and coauthor of over 90 journal articles and 80 conference papers.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

May 31, 1991

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

Professor Roy S. Nutter, Jr.
Department of Electrical Engineering
West Virginia University
821 Engineering Science Building
Morgantown, West Virginia 26506

Dear Roy:

I write this letter in support of the proposed "IEEE Neural Networks Council Forum on Applications of Artificial Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing." All Forum proposals must be endorsed by a Neural Networks Council AdCom Member. With this letter, I hereby do so.

The Forum's proposed organizing committee consists of the researchers who pioneered the use of artificial neural networks to inverse scattering problems. Both Professors Ishimaru and Tsang are world renowned experts in the fields of scattering theory and remote sensing. Professor Hwang's work in inversion of artificial neural networks has attracted significant international attention.

Neural networks, interestingly, seem quite well suited to the solution of inverse problems. The reasons are two fold. First, the neural network can either be straightforwardly trained on the inverse physics or on the forward physics and inverted. In the test mode, inversion can be performed quite quickly in comparison to the typically required use of supercomputers. Secondly, a quite large volume of raw data exists from which to train the neural network. Data from remote sensing satellites is massive.

Neural network based solutions to inverse problems has potential use in a number of fields, including controls, robotics, medical imaging and remote sensing.

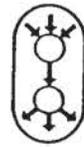
The field is timely and the credentials of the organizing committee are extremely strong. As a member of the AdCom of the IEEE Neural Networks Council, I recommend support of this Forum by the Neural Networks Council without reservation. I will be interfacing with the Forum by serving as Publications Chair.

Sincerely,

A handwritten signature in cursive script that reads "Bob Marks".

Robert J. Marks, President
Neural Networks Council

TAB 20



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Meetings Committee Members,

Ms. Nomi Feldman at Meeting Management recently scouted some sites for future Council Conferences. The results are attached. In order to secure conference sights, the ExCom, at its meeting on 4-22-91, made the following recommendations.

FUZZ-IEEE '93 4/23-29 Hyatt San Francisco

1994 World Congress on Intelligent Systems
FUZZ-IEEE '94 & ICNN '94, back to back
Washington DC, Hilton,
9 days in the period June 16-30 including two weekends.

In addition, I task the Meetings Committee to

- ◆ nominate a Congress Coordinator for 1994.
- ◆ nominate Chairs for the 1994 Conferences.
- ◆ identify the sight for the 1995 World Congress.

A large, stylized handwritten signature in black ink, appearing to read 'R.J. Marks II'.

Robert J. Marks II, President
IEEE Neural Networks Council

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 FUZZY LOGIC SYSTEMS 1993

Potential Dates & Locations

	<u>San Francisco</u>	<u>Honolulu</u>	<u>Detroit</u>
Hotel -----	HYATT REGENCY	HILTON HAWAIIAN VILLAGE	HYATT REGENCY
Dates -----	4/23-29 2nd Option	4/24-29 1st Option 4/17-23 2nd Option 3/27-4/1 2nd Option	4/24-29 1st Option
Room Rates ---	Single - \$135 Double - \$155	Single - \$150-220 Double - \$150-220	Single - \$120 Double - \$120
	*****	*****	*****
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON WAIKIKI	WESTIN
Dates -----	<i>not available</i> 5/8-14 2nd Option	3/27-4/1 1st Option	4/24-29 1st Option 3/27-4/1 1st Option
Room Rates ---	Single - \$155 Double - \$175	Single - \$175 Double - \$175	Single - \$89 Double - \$99
	*****	*****	*****
Hotel -----	WESTIN ST. FRANCIS		
Dates -----	4/17-23 1st Option		
Room Rates ---	Single - \$109 Double - \$170 (deluxe)		

Hotel -----	SAN FRANCISCO HILTON		
Dates -----	4/24-29 1st Option		
Room Rates ---	Single - \$140-\$165 Double - \$155-\$175		

To: Bob Marks
 (206) 543-3842

4/1/91

*Quoted room rates are 1991 rates

WORLD INTELLIGENCE 1994
Potential Dates & Locations

	<u>San Francisco</u>	<u>San Diego</u>	<u>Washington DC</u>
Hotel -----	SAN FRANCISCO MARRIOTT	SHERATON HARBOR ISLAND	THE WASHINGTON HILTON
Dates -----	<i>not</i> 7/29-8/10 ^{available} 2nd Option 8/23-9/4 2nd Option 8/30-9/10 2nd Option	6/5-15 1st Option 8/7-17 1st Option 8/27-9/6 1st Option <i>not available</i> 6/11-21 2nd Option 7/9-19 2nd Option 7/16-26 2nd Option	6/16-30 1st Option 7/1-7 1st Option 6/9-21 2nd Option 7/8-15 2nd Option 8/1-13 2nd Option
Room Rates ----	Single - \$150 Double - \$170 *****	Single - \$90 Double - \$105 *****	Single - \$130-\$150 (June) \$ 90-\$111 (July) \$ 85-\$105 (Aug.) Double - \$150-\$170 (June) \$110-\$130 (July) \$105-\$125 (Aug.) *****
Hotel -----	HYATT REGENCY	TOWN & COUNTRY RESORT	SHERATON WASHINGTON
Dates -----	6/1-13 2nd Option 6/10-22 2nd Option 8/13-31 2nd Option	7/5-20 1st Option 6/19-30 2nd Option	7/13-21 2nd Option 8/17-25 2nd Option
Room Rates ----	Single - \$135 Double - \$155 *****	Single - \$78-104 Double - \$88-114 *****	Single - \$145-\$165 Double - \$170-\$190 *****

*Quoted room rates are 1991 rates

To: Bob Marks
 (206) 543-3842

7/11/91

TAB 21

March 13, 1991

IEEE Conference Series
445 Hoes Lane
Piscataway, NJ 08855-1331

Dear Sirs,

Herewith I am sending you by Federal Express the following items regarding Fuzz-IEEE, The First International Conference on Fuzzy Systems, sponsored by the IEEE Neural Networks Council, to be held in San Diego, CA on March 8-12, 1992.

1. IEEE Conference Information Schedule
2. Detailed Financial Report Parts I (Income) and II (Expenses) : Budget
3. Summary Financial Report : Budget
4. Conference Insurance Request

Please process this material as expeditiously as possible.

With many thanks.

Sincerely yours,

James C. Bezdek 3/13/91

James C. Bezdek
Nystul Professor of Computer Science, and Chair
FUZZ-IEEE : The International Conference on Fuzzy Systems

Copies to: Robert Marks, Pat Simpson, Don Kraft, Didier Dubois, Naomi Feldman



IEEE CONFERENCE INFORMATION SYSTEMS

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference: INTERNATIONAL FUZZY SYSTEMS CONFERENCE (IEEE)
 2. Dates of Conference: _____
 3. Location of Conference (Full name of hotel, town & country, hotel no., street, apt. no., etc.): 500 HOTEL CIRCLE NORTH SAN DIEGO, CA 92101
 4. Estimated Attendance: 500
 5. Exhibits: Yes No
 6. Will there be a Conference publication? Yes No. If Yes, check one box below:
 Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE Neural Networks Council</u>	%	<u>100</u>
Entity	_____	%	_____
Entity	_____	%	_____
Entity	_____	%	_____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
<u>IEEE INDUSTRIAL ELECTRONICS SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>IEEE COMMUNICATIONS SOCIETY</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>INTERNATIONAL FUZZY SYSTEMS ASSOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>NORTH AMERICAN FUZZY INF. PROC. SOC.</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
 If yes, who was contacted? JIM BUSSERT San Diego Section

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN JAMES C. BEZDEK Tel. No. (904) 474-2784
 Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514

INFORMATION CONTACT Meeting Management N. Feldman Tel. No. (619) 453-6222
 Address 5665 Oberlin Drive, Ste 110, San Diego, CA 92121

COMMITTEE MEMBERS
 If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:
 Name JAMES C. BEZDEK Tel. No. (904) 474-2784
 Address Computer Science U. of W. Florida, Pensacola, FL 32514
 Conference Position General Chairman

SIGNATURE James C. Bezdek Date 3/8/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

General Chair

Jim Bezdek
Computer Science
Univ. of W. Florida
Pensacola, FL 32514
tel. (904) 474-2784
fax (904) 474-3023
jbezdek@uwf.bitnet

Dr. Richard Tong
Advanced Decision Systems
1500 Plymouth Road
Mountain View, CA 94043

Dr. Piero Bonissone
General Electric CR & D
1 River Road : KI-5C32A
Schenectady, NY 12301

Honorary Chair

Lotfi Zadeh
EE Dept.
Univ. of California
Berkeley, CA 94720
(415) 642-4959

Publicity Committee

Prof. Fred Petry
Computer Science Department
Tulane University
New Orleans, LA 70118

Prof. James Keller
Electrical and Computer Engr.
University of Missouri
Columbia, MO 65211
314 - 882-7339
ecekeker @ umc.vmb.bitnet

Program Committee Co-Chairs

D. Dubois/H. Prade
Langages et Sys. Informatiques
Universite Paul Sabatier
118 Route de Narbonne
31062 Toulouse Cedex, FRANCE

Exhibits Committee

Dr. Masaki Togai
Togai Infralogic Inc.
30 Corporate Park, Suite 315
Irvine, CA 92714

Finance Committee

Prof. Don Kraft
Computer Science Dept
LSU
Baton Rouge, LA 70803
504-388-1331

Professor T. Yamakawa
Computer Science Department
Kyushu Institute of Technology
Iizuka, Fukuoka 820, JAPAN

Pat Simpson
Electronics Div.
General Dynamics
17436 Ashburton Road
San Diego, CA 92128
tel. (619) 573-2417
fax (619) 573-7400

Prof. Hans Zimmermann
Operations Research
Aachen Institute of Technology
Templergraben 64
5100 Aachen, FRG

Tutorial Committee

Dr. Enrique Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park, CA 94025
(415) 859-2314
RUSPINI@AI.SRI.COM

Advisory Board

Prof. George Klir
Department of Systems Science
SUNY
Binghamton, NY 13901

Prof. Elie Sanchez
Faculte de Medecine
Universite Aix-Marseille II
27, Blvd Jean-Moulin
13385 Marseille Cedex 5, France

Dr. P. H. Smets
University Libre de Bruxelles
IRIDIA
avenue F. Roosevelt 50. CP 194/96
B-1050 Brussels, BELGIUM

Prof. Michio Sugeno
Systems Science Department
Tokyo Institute of Technology
4259 Nagatsuta, Midori-Ku
Yokohama, 227, JAPAN

Prof. Toshiro Terano
Hosei University
3-7-2 Kajino-Cho
Koganei, Tokyo 184, JAPAN

Dr. Ronald Yager
Machine Intelligence Institute
Iona College
New Rochelle, NY 10801

Administration

Nomi Feldman, FUZZ-IEEE
Meeting Management
5665 Oberlin Dr., Ste 110
San Diego, CA 92121
(619) 453-6222



IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)
Dates of Conference MARCH 8-12, 1992

- SEE ATTACHED SHEET -

INCOME

REGISTRATION FEES

	Quantity	Fee	=	Budget	Interim Report	Final Report
In Advance - Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x	_____	=	_____	_____	_____
In Advance - Reduced Rate	_____ x	_____	=	_____	_____	_____
At Conference - Members	_____ x	_____	=	_____	_____	_____
At Conference - Nonmembers	_____ x	_____	=	_____	_____	_____
At Conference - Reduced Rate	_____ x	_____	=	_____	_____	_____
Total Registrants		Total		\$ _____	\$ _____	\$ _____

CONFERENCE PUBLICATION SALES

To Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x	_____	=	_____	_____	_____
To IEEE Hq.	_____ x	_____	=	_____	_____	_____
Total Copies		Total		\$ _____	\$ _____	\$ _____

EXHIBITS

Tables	_____ x	_____	=	\$ _____	\$ _____	\$ _____
Booths	_____ x	_____	=	_____	_____	_____
Booths	_____ x	_____	=	_____	_____	_____
	_____ x	_____	=	_____	_____	_____
		Total		\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS

(Itemize by event on separate sheets.)

Total	\$ _____	\$ _____	\$ _____
--------------	-----------------	-----------------	-----------------

ALL OTHER (List here or attach details.)

_____	\$ _____	\$ _____	\$ _____
_____	_____	_____	_____
_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL INCOME	\$ <u>11,750</u>	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

 IEEE FINANCIAL REPORT

PART I: INCOME

International Fuzzy Systems Conference (FUZZ-IEEE) March 8-12, 1992

	Qua.	Fee	Budget	Inter Rpt	Fin Rpt
REGISTRATION FEES					
Members					
Memb. before 11/2/91	100	195.00	19,500.00		
Memb. before 1/31/92	100	295.00	29,500.00		
Memb. at conf.	200	390.00	78,000.00		
Non-Members					
Non-memb. before 11/2/91	50	295.00	14,750.00		
Non-memb. before 1/31/92	25	395.00	9,875.00		
Non-memb. at conf.	25	490.00	12,250.00		
Students					
Before 11/2/91	25	50.00	1,250.00		
Before 1/31/92	25	75.00	1,875.00		
Students at conf.	50	95.00	4,750.00		
Total registrants	600	Total	171,750.00		
 CONFERENCE PUBLICATION SALES					
To members	25	50.00	1,250.00		
To non-members	25	100.00	2,500.00		
To IEEE headquarters	450	25.00	11,250.00		
Total Copies	500	Total	15,000.00		
 EXHIBITS					
Booths/Publishers	5	650.00	3,250.00		
Booths/All Others	25	950.00	23,750.00		
Total			27,000.00		
 SOCIAL FUNCTIONS					
.....			\$0.00		
Total			\$0.00		
 ALL OTHER					
Tutorial, one only	60	200.00	12,000.00		
Tutorial, two	200	300.00	60,000.00		
Seed Money Advance	1		30,000.00		
Total			102,000.00		
 TOTAL INCOME			 315,750.00		



IEEE CONFERENCE DETAILED FINANCIAL REPORT ON EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference International Fuzzy Systems Conference (FUZZ-IEEE)

Dates of Conference _____

PROMOTION

	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____

SEE ATTACHED SHEET

CONFERENCE PUBLICATION

Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____

EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)

Total	\$ _____	\$ _____	\$ _____
--------------	-----------------	-----------------	-----------------

SOCIAL FUNCTIONS

(Itemize event on separate sheets.)

Total	\$ _____	\$ _____	\$ _____
--------------	-----------------	-----------------	-----------------

ADMINISTRATION

Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____

ALL OTHER

Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ <u>282,000</u>	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: _____

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars – at the current conversion rate – when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name James C. Bezdek Tel. No. (904) 474-2784
 Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514
 Conference Position _____

SIGNATURE James C. Bezdek Date 3/15/91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

 IEEE FINANCIAL REPORT

PART II: EXPENSES

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
PROMOTION			
Flyer/prod & printing	15,000.00		
Program/prod & printing	5,000.00		
Mailing lists and labels	5,000.00		
Postage	21,000.00		
Mailing house	5,000.00		
Advertising	15,000.00		
Other/Souvenir Items	5,000.00		
Total promotion	71,000.00		
CONFERENCE PUBLICATION			
Conf. record/digest printing	50,000.00		
Comm w. auth & sess chairs	2,500.00		
Total conf. publication	52,500.00		
EXHIBITS			
Signage	1,500.00		
Brochure	1,000.00		
Furniture	2,500.00		
Comm w Exhibitors	1,000.00		
Total exhibits	6,000.00		
SOCIAL FUNCTIONS	45,000.00		
ADMINISTRATION			
Insurance and bonding	100.00		
Security and guard service	2,000.00		
Audio-video rental and op.	1,500.00		
Management Fee (sliding scale)	25,000.00		
Office equipment rental	1,000.00		
Pr. forms tickets, sta., etc.	1,250.00		
Posters, signs, badges, etc.	1,250.00		
Telephone, FAX, copying	1,000.00		
Registration clerical help	10,000.00		
Registration supplies	400.00		
Total Administration	43,500.00		
ALL OTHER			
Tutorials/Signage	1,500.00		
Tutorials/Notebooks	2,500.00		
Tutorials/Audio-Visual	1,000.00		
Tutorials/Honoraria	18,000.00		
Audit	3,000.00		
Invited Speakers/Honoraria	8,000.00		
Total Other	34,000.00		
TOTAL CONFERENCE EXPENSES	252,000.00		
LOAN REPAYMENT	30,000.00		
TOTAL OUTLAYS	282,000.00		



SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference INTERNATIONAL FUZZY SYSTEMS CONFERENCE (FUZZ-IEEE)
2. Dates of Conference MARCH 8-12, 1992
3. Location of Conference (full name and address) Town & Country Hotel, 500 Hotel Circle N. San Diego, CA 92108

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
[X] Budget [] Interim Report [] Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.

Local currency: Conversion rate: Date of conversion rate:

INCOME

SEE ATTACHED SHEET

Table with 4 columns: Budget, Interim Report, Final Report. Rows include Registration Fees, Conference Publication Sales, Exhibits, Social Functions, All Other Conference Receipts, Total Conference Income, Advance Loans, Total Receipts.

EXPENSE

Table with 4 columns: Budget, Interim Report, Final Report. Rows include Promotion, Conference Publications, Exhibits, Social Functions, Administration, All Other Conference Expenses, Total Conference Expense, Loan Repayments, Total Outlays.

SURPLUS / (LOSS)

23. Total Receipts (13) \$ 315,750
24. Total Outlays (22) \$ 282,000
25. Surplus (Loss) - (Item 23 less Item 24) \$ 33,750

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Table with 3 columns: Cosponsor Entity, % Share, \$ Distributed. Row 1: IEEE Neural Networks Council, 100, \$ Distributed.

CONFERENCE FINANCIAL INSTITUTION

Name of Bank Point Loma Federal Credit Union, Sports Arena Branch # 01
Address 3777 Sports Arena Blvd., San Diego, CA 92110
Conference Account Title FUZZ-IEEE 1992 Account No. 080401743
Have you requested IEEE Conference Insurance? [X] Yes [] No

SUBMITTED BY:

Name James C. Bezdek Tel. No. (904) 474-2784
Address Computer Science, Univ. of W. Florida, Pensacola, FL 32514
Conference Position General Chair

SIGNATURE James C. Bezdek Date 3/15/91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.

IEEE FINANCIAL REPORT

PART III: SUMMARY

International Fuzzy Systems Conference (FUZZ-IEEE)

March 8-12, 1992

	Budget	Inter Rpt	Fin Rpt
INCOME			
6. Registration fees	171,750.00		
7. Conf. publication sales	15,000.00		
8. Exhibits	27,000.00		
9. Social Functions			
10. All other conf. receipts (tutorials)	72,000.00		
11. Total conference income	285,750.00		
12. Advance loans	30,000.00		
13. Total receipts	315,750.00		
EXPENSE			
14. Promotion	71,000.00		
15. Conference publications	52,500.00		
16. Exhibits	6,000.00		
17. Social functions	45,000.00		
18. Administration	43,500.00		
19. All other conf. expenses	34,000.00		
20. Total conference expenses	252,000.00		
21. Loan repayments	30,000.00		
22. Total outlays	282,000.00		
SURPLUS (LOSS)			
23. Total receipts	315,750.00		
24. Total outlays	282,000.00		
25. Surplus (loss)	33,750.00		



REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name International Fuzzy Systems Conference

Conference Dates March 8-12, 1992

Conference Hotel or Center Town and Country Hotel, 500 Hotel Circle N.,

Conference Location (City, State & Zip Code) San Diego, CA 92108

CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)

If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)

If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000

A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)

Note: There will be an approximate \$100 charge billed directly to the conference.

CONFERENCE WILL CHARTER: Bus Other (explain) _____

See special note regarding transportation rental.

CERTIFICATE OF INSURANCE

You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.

Name James C. BEZDEK

Conference Title General Chairman

Address Div. of Computer Science

Univ. of West Florida

Pensacola, FL 32514

Phone No. (904) 474-2784

Signature James C. Bezdek

Date 3/5/91

FOR OFFICIAL USE ONLY

CONF DATE

Mo.	Date	Yr.

Date Rec'd _____

Date Ack _____

Off&Ctm List _____

Charter Cert _____

IN & OUT ROBBERY

- A&A Inv. Req. _____

- Inv. to Conf. _____

- Check to A&A _____

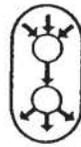
INSURANCE CLAIM

FILE COMPLETE

TAB 22



NEURAL NETWORKS COUNCIL



250
400
10,000
25,000

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

6-20-91

Dear NNC Meetings Committee Members,

Ichiro Masaki, Chair of *Intelligent Vehicles '92*, and Robert Begun, President of the *IEEE Industrial Electronics Society*, have invited our Council to Cooperate in the *Intelligent Vehicles '92* Conference. The *IEEE Industrial Electronics Society* is a Cooperating Society in FUZZ-IEEE.

It is appropriate that the Meetings Committee consider this invitation and make any motions they feel appropriate to AdCom.

Robert J. Marks II, President
IEEE Neural Networks Council

CALL FOR PAPERS

Intelligent Vehicles '92

July 1 and 2, 1992, Suburbs of Detroit, USA

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: ?

The IEEE/IES Intelligent Vehicle Subcommittee is organizing international meetings once every year. In 1991, for example, an international meeting was held on "fuzzy and Neural Systems, and Vehicle Applications" in Tokyo. The meeting in 1990 was on "Vision-Based Vehicle Guidance". This year we are planning to have multiple sessions. We will consider publishing a book, in addition to proceedings, by selecting good papers presented in the special session as is the traditional of this workshop.

Topics: **Communication for Intelligent Vehicles (Special Session)**
 Real-Time Traffic Control
 Navigation
 Sensing for Intelligent Vehicles
 Collision Avoidance
 Road Following
 Control for Intelligent Vehicles
 Fuzzy Logic
 Neural Nets
 Intelligent Power Train Controller

Deadlines: December 1, 1991 for one-page abstracts
 February 1, 1992 for acceptance notices
 April 1, 1992 for camera-ready papers

Please send your business card (or a card with your address, phone, fax, and e-mail) together with the following reply to

Ichiro Masaki, Computer Science Department
General Motors Research Laboratories,
30500 Mound Road, Warren, Michigan, 48090-9055, USA
Phone: (USA) 313-986-1466, FAX: (USA) 313-986-9356
CSNET:MASAKI@GMR.COM

Reply for Intelligent vehicles '92:

- A proposal for a special session is enclosed.
- I intend to submit a paper.
- I am interested in attending the meeting.
- Put my name on the mailing list.

Fuzzy and Neural Systems, and Vehicle Applications '91

November 8 and 9, 1991, Tokyo, Japan

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: IEEE Industrial Electronics Society
Japan Society for Fuzzy Theory and Systems
Society of Instrument and Control Engineers
Robotics Society of Japan

The International Roundtable Discussion on "Fuzzy and Neural Systems, and Vehicle Applications" is scheduled for November 8 and 9, 1991 at the University of Tokyo.

This meeting will focus on applications of fuzzy and neural systems to vehicles. Informal communication among attendees is encouraged through a single session format. The presentations include research projects at major car manufacturers in addition to world leading academic groups in the field of Fuzzy and Neural Systems as listed in the preliminary program.

Preliminary Program

Session chairs include:

S. Amari (U of Tokyo)	C.G. Atkeson (MIT)
F. Harashina (U of Tokyo)	K. Hirota (Hosei U)
E.H. Ruspini (SRI)	C. Koch (Cal. Tech. of Inst.)
M. Sugeno (Tokyo Inst. Tech.)	M. Togai (Togai I. L.)
L.A. Zadeh (U of California)	

Friday, November 8, 1991 (10am - 6pm)

1. T. Mingers, S. Rouksh, A. Titli; MIRSAS, INS, Siemens; France
Application of Fuzzy Control to the Design of a Car Suspension
2. Y. Uyeda; Omron; Japan
Improvement of Chassis Control by a Fuzzy Controller
3. K.A. Marko, J.V. James, R.J. Hampo; Ford; USA
Vehicle Applications of Artificial Neural Systems: Diagnostics and Control
4. M. Lee; U of Gent; Belgium
Automatic Analysis and Diagnosis of Automobiles Using Neural Networks
5. H. Takahashi; Nissan; Japan
A Method for Predicting the Driving Environment Using Fuzzy Reasoning
6. M. J. Patyra; Carnegie Mellon U; USA
Implementation of Fuzzy Operations with Neural Networks
7. C. W. de Silva; U of British Columbia; Canada
A Generalized Fuzzy Control Hierarchy
8. P. A. Ligomenides, L.B. Jump, Y-S Chlou; U of Maryland, Caslum Res Corp; USA
A Reconfigurable Ring Architecture for Large Scale Neural Networks
9. P. Baschore, J.T. Yestrebsky; Neuralogix; USA
Innovative Architectural and Theoretical Considerations Yield Efficient Fuzzy Logic Controller VLSI Design
10. C. G. Atkeson; MIT; USA
Memory-Based Learning of a Nonlinear Vehicle Model

11. L.A. Feldkamp, G.V. Pustorius, L.I. Davis, F. Yuan; Ford; USA
Decoupled Kalman Training of Neural Controllers for Automotive Systems
 12. J-S R. Jang; U of California; USA
A Self-Learning Fuzzy Controller with Applications to Tracking and Parking Problems
 13. Y. Hashimoto, T. Shigematsu, K. Okishi, N. Ohta; Toyota; Japan
Application of a Self-Tuning Fuzzy Algorithm to an Automatic Steering Control
 14. T. Hesseburg, M. Tomizuka; U of California; USA
A Fuzzy Rule Based Controller for Automotive Vehicle Guidance
 15. T. Suzuki, K. Aoki, T. Inoue, H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Real-Time Adaptive Control of Vehicle Speed, using Neural Networks applied to Electronically Controlled Braking Systems
 16. Aurrand-Lions, L. Fournier, P. Jarri, M. de Saint Blancard, E. Sanchez; U of Aix-Marseille II, Peugeot; France
Application of Fuzzy Control for ISIS vehicle braking
 17. H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Tracking Control for an Autonomous Mobile Robot by Neural Networks
 18. E. H. Ruspini, D.C. Ruspini; SRI International, NASA; USA
Autonomous Vehicle Motion Planning Using Fuzzy Logic
 19. L. Huang, W. Kao, H. Oshizawa; ZEXEL; USA
A fuzzy Map-Matching Algorithm for Automotive Navigation Systems
- Saturday, November 9, 1991 (10am - 6pm, including banquet)

1. T. Hrycej, Daimler-Benz, Germany
Model-Based Learning of a Neural Spacecraft Attitude Controller
2. S. Chiu, S. Chand; Rockwell International; USA
Fuzzy Controller Design and Stability Analysis for Roll Maneuver of an Aircraft Model
3. R.N. Lea, Y. Jani, M.G. Murphy, M. Togai; NASA, LinCom, U of Houston, TIL; USA
Design and Performance of A Fuzzy Logic Based Vehicle Controller for Autonomous Collision Avoidance
4. C. Koch; California Institute of Technology; USA
Real-Time Computer Vision and Robotics Using Analog VLSI Circuits
5. R. Fujitaka; Omron; Japan
An Anticollision System Concept
6. G.S. Pingali, R. Jain; U of Michigan; USA
A Highly Parallel Architecture for Extraction of Road Boundaries for Autonomous Vehicle Guidance
7. T. Hanamoto, A. Sugiyama, T. Takatsu, M. Nakajima, Takahashi; Komatsu, Ministry of Construction; Japan
An Operation Assistance System in Small-Bore Pipe-Jacking
8. E. C. Yeh, J.C. Bin; National Tsing Hua University; Taiwan
Fuzzy Control for Self-Steering of a Sailboat
9. A. Takayama, A. Hirako; Isuzu; Japan
Adaptive Cruise Control According to Optimal Distance
10. K.P. Venugopal, A.S. Pandya, R. Sudhakar; Florida Atlantic U; USA
An Adaptive Control System for Autonomous Underwater Vehicles
11. L.A. Zadeh; U of California; USA
Fuzzy Logic - Today and Tomorrow
12. I. Sakai, M. Togai, S. Sakaguchi, T. Haga; Honda, TIL; Japan
Shift Scheduling Method for Automatic Transmission Vehicles Using Fuzzy Logic

- 13. Y. Dote, H. Hayashi, A. Takayama, A. Hirako; *Muroran Institute of Tech., Iisuzu; Japan*
Neural Fuzzy Transmission Control for Automobiles
- 14. B.S. Widmann, G.R. Widmann; *GM-Hughes; USA*
Implementation of Object Oriented Constructs for Use In Fuzzy Logic Classifiers
- 15. N. Ikeya; *IHI; Japan*
Variable Geometry Turbocharger for Automobile Engines with Fuzzy Controls
- 16. M. Abate; *Fiat; Italy*
An Application of Fuzzy Logic to Engine Control
- 17. Round Table Discussion

Banquet

(The preliminary program may be changed without advance notice.)

***** Organizing Committee *****

General Chair:	I. Masaki	(General Motors)
Local Chairs:	T. Fukuda	(U of Nagoya)
	H. Hashimoto	(U of Tokyo)

S. Amari	(U of Tokyo)	J. C. Bezdek	(U of W Florida)
F. Harashima	(U of Tokyo)	R. Hecht-Nielsen	(HNN)
C. Koch	(Cal Tech)	B. Kosko	(S. California U)
M. Sugeno	(Tokyo Inst of Tech)	T. Terano	(LIFE)
M. Togai	(Togai I. L.)	L. A. Zadeh	(U of California)

A. Hosaka	(Nissan)	J. Bernasch	(BMW)
L. A. Feldkamp	(Ford)	A. Hirako	(Isuzu)
T. Inoue	(Toyota)	T.B.D.	(Honda)
K. A. Marao	(Ford)	W. Mellis	(Daimler-Benz)
H. Metzler	(Daimler-Benz)	A. Okuno	(Mazda)
M. de Saint Blancard	(Peugeot)		

H. Akatsuka	(Nippondenso)	M. Aoki	(Matsushita)
H. R. Berenji	(NASA)	B. Bosacchi	(AT&T)
J. P. Crutchfield	(U of California)	R. Eckmiller	(U of Dusseldorf)
K. Fukushima	(U of Osaka)	S. Grossberg	(Boston U)
G. Heess	(Bosch)	K. Hirota	(Hosei U)
H. Inoue	(U of Tokyo)	R. Jain	(U of Michigan)
T. Kanade	(Carnegie Mellon U)	A. Kato	(Komatsu)
S. Y. Kung	(Princeton U)	R. N. Lea	(NASA)
C. Lee	(U of California)	P. A. Ligomenides	(U of Maryland)
K. Matsumoto	(Hitachi)	M. Ohyagi	(Omron)
M. J. Patyra	(Carnegie Mellon U)	W. Pedrycz	(U of Manitoba)
W. J. Prtyula	(Hughes)	E. H. Ruspini	(SRI)
C. W. de Silva	(U of British Columbia)	T. B. Sheridan	(MIT)
Y. Shirai	(U of Osaka)	N. Singh	(U of Windsor)
A. Takanishi	(Waseda U)	M. Tomizuka	(U of California)
S. Tsuji	(U of Osaka)	J. Yen	(Texas A&M U)
M. Yoshida	(Fujiitsu)	N. Yubazaki	(Mycorn)
S. Yuta	(Tateyama U)		

 Related conferences include:
 IECON (International Conference on Industrial Electronics), Oct.28 - Nov.1 in Japan
 H. Haneda FAX: 81-3-3814-4699
 IROS (International Workshop on Intelligent Robots and Systems), Nov. 3-5, 1991
 In Japan F. Miyazaki FAX: 81-6-843-9730
 IFES (International Fuzzy Engineering Symposium), Nov. 13-15, Japan
 Secretariat for IFES FAX: 81-45-212-825b

* For travel arrangements, please contact
 Mr. Masafumi Murase, Japan Travel Bureau, New York Office, USA
 fax: (USA) 212-586-9686, Phone: (USA) 212-246-8030
 for example, discount roundtrip airfare between Detroit and Tokyo is \$1,090.

* The meeting will be held at the Institute of Industrial Science at the University of Tokyo.
 The Institute is not located on the main campus. The address is 7-22-1 Roppongi, Minato-ku, Tokyo.

***** Registration Information *****

Registration fee: Before September 20 280 U.S.Dollars (39,000 Japanese Yen)
 Late registration 310 U.S.Dollars (43,000 Japanese Yen)

- Please send (1) attached registration form including credit card information or check. Only checks from U.S. banks are acceptable. Make the check payable to Intelligent Systems Society.
- (2) a business card (or a card with your address, phone, and fax.)

to Ichiro Masaki
 Computer Science Department, General Motors Research Laboratories
 30500 Warren, Michigan, 48090-9055, USA
 Fax: (USA) 313-986-9356, Phone: (USA) 313-986-1466,
 CSNET:MASAKI@GMR.COM

Residents of Japan may send the attached registration form along with a business card to the local chair and transfer the registration fee to the local bank as described below. Please write your name both in English and Japanese.

申込先は 橋本秀記, 東京大学生産技術研究所第三部, 〒106 東京都港区六本木7-22-1, 電話 03-3402-8231, ファクス 03-3423-1484.
 参加料は東京銀行内にある「エヌビーディーバンク口座」経由で、エヌビーディーバンク内の「インテリジェントシステムズ ソサイアティ口座」に振り込んでください。東京銀行丸ノ内支店における「エヌビーディーバンク」の口座番号は「当座 0015636」で、エヌビーディーバンク東京支店における「インテリジェントシステムズ ソサイアティ」の口座番号は「当座 20850-0002」です。御質問はエヌビーディーバンク(03-3214-7304)まで。

----- cut -----
 Registration Form

Name: _____
 Fax: (Country: _____) _____
 Phone: (Country: _____) _____

Please attach your business card for your mailing address.

Registration Fee (Mark one)
 280 U.S. Dollar 310 U.S. Dollar 39,000 Yen 43,000 Yen

Payment (Mark one)
 Credit Card AMEX VISA Master Diners

Card Number: _____ Exp: ____/____

Check (payable to Intelligent Systems Society)
 Only checks from U.S. banks are acceptable.
 Bank Transfer (For Japanese residents only)

TAB 23

Robert J. Marks II Library Archive

**NEUROCYBERNETICS RESEARCH INSTITUTE
ROSTOV STATE UNIVERSITY**

194/1 Stachka Ave, Rostov-on-Don, 344104, USSR
phone: (8632)280577 telex: 123228 TEMR fax: (8632)244311

Professor Robert J. Marks II
President
IEEE Neural Network Council
University of Washington
Department of Electrical Engineering
Seattle, WA 98195
USA

Sept 1992
Regional Forum
Liasson
Pat →

March 28, 1991

Dear Professor R.J.Marks,

I appeal to you by recommendation of Prof. Robert Hecht-Nielsen. Two words about myself. I am working in Neurocomputing since 1962. A short synopsis of my work in the field (to a pity - in Russian !) is enclosed. Some of them are in international editions.

Now I am a director of Neurocybernetics Research Institute of the Rostov State University and President of a Provisional Committee of Russian Neural Network Society. The Inauguration Congress of the latter will be held in Moscow in April, 1991. The Institute is the only professional institution in the field of Neurocomputing in the USSR (established by Prof. A.B.Kogan in 1972) and surely possesses a substantial share of all Russian neural network workers.

Prof. R.Hecht-Nielsen advised me to organize in Rostov a small conference on neural networks in 1992 (30-th anniversary of our Institute) and a larger one in Moscow in 1995.

According to these advices I appeal to you with the following (multiple-!) applications. All of them are indeed valid in a case you would be inclined to begin a cooperation with us. Our suggestions and applications follow below in some natural order.

1. Name of the meeting:

1992 IEEE Rostov-on-Don International Symposium on
Neuroinformatics and Neurocomputers.

2. Purpose of the Symposium:

Communication of new neural network research results with emphasis on the Eastern European region.

3. Anticipated Attendance:

200 from the USSR and 100 from other countries.

4. Should you agree to cooperate with us, we see the following your actions be necessary in order to be able to have the meeting:

- * Official letter, offering IEEE cooperation/participation for this meeting (we need this letter quickly so that we can secure necessary preparations at local authorities and Government levels).

- * Insertion of the following announcement in all major IEEE publications (Spectrum magazine, IEEE Proceedings, IEEE Transactions on Neural Networks, etc.):

1992 IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers, Rostov-on-Don, USSR, 4-6 October, 1992

six-page camera-ready papers on 8.5" x 11" sheets with 1" margins must be submitted no later than 24 December 1991

Contact:

Professor Witali L. Dunin-Barkowski
Director
Neurocybernetics Research Institute
Rostov State University
194/1 Stachka Ave
Rostov-on-Don 344104
USSR

- * Supply at least two IEEE Neural Network Council advisors to assist with organization of the meeting and with the on-site running of the meeting in October, 1992.
- * Arrange for after-symposium sale of the symposium proceeding, which will be printed by Rostov State University (using IEEE guidelines and format - please, supply these!) with 100 extra copies to be delivered to the IEEE Press for after-symposium sales.
- * Publication of a full-page call for papers in the IEEE Transactions on Neural Network once each during the Summer and Autumn of 1991. We will supply a camera-ready copy at the call for papers by 1 May 1991.

Please, let us know if our appeal is suitable for you. Me and my colleagues are waiting impatiently for your reply.

Sincerely yours,

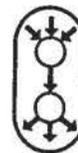


Witali L. Dunin-Barkowski
Professor, Director of Neurocybernetics
Research Institute



IEEE

COUNCIL ON NEURAL NETWORKS



Robert J. Marks II
President

5-25-91

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104, USSR
(8632) 280577, telex: 123228 TEMR
FAX (8632) 244311

PLEASE REPLY TO:
University of Washington
Dept. of Electrical Engineering, FT-10
Seattle, WA 98195 USA
Tel.: (206) 543-6990
Fax: (206) 543-3840
marks@blake.acs.washington.edu

Dear Dr. Dunin-Barkowski,

Thank you for your telephone call. The *IEEE Neural Networks Council* (NNC) is excited about involvement with the newly formed *Russian Neural Network Society*.

The NNC will be hosting a President's Dinner at the Seattle IJCNN on Tuesday, July 9, 1991. The Presidents of other neural network societies will also be in attendance. I invite you to attend. If you do not have the funds to attend, I have been authorized by the NNC Executive Committee to offer our assistance with a portion of your travel expenses. I will send you a FAX with more details within a week.

I am sorry that the NNC cannot participate in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* as proposed. There are two reasons. First, we are co-sponsoring the *International Joint Conference on Neural Networks* in Beijing on November 3-6, 1992. The conference is co-sponsored with the *International Neural Networks Society* (INNS). Our agreement with the INNS does not allow us to participate in another neural networks conference within 30 days (before or after) the Beijing conference. Your proposed dates of 4-6 October, 1992 are within this 30 day period. Nevertheless, the NNC will gladly list your conference in our newsletter which is distributed to over 8000 subscribers.

The NNC can be a participating society in the 1992 *IEEE Rostov-on-Don International Symposium on Neuroinformatics and Neurocomputers* under the following conditions*:

- ◆ The conference is scheduled to end on or before October 3, 1992.
- ◆ The estimated attendance at the conference is not more than 400.
- ◆ The local IEEE Section participates in the conference.
- ◆ The participation is approved by the NNC Administrative Committee.

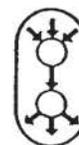
Whether the NNC participates or not, I wish you a highly successful conference.

Robert J. Marks II, President
IEEE Council on Neural Networks

cc: Evangelia Tzanakou, NNC Secretary
Roy Nutter, NNC Meetings Chair
Laura Jobmann, IEEE

Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE

* The first two conditions are imposed on us by our agreement with the INNS.



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

5-28-91

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
Neurocybernetics Research Institute, Rostov State University
194/1 Stachka Ave, Rostov-on-Don 344104
USSR
(8632) 280577, telex: 123228 TEMR, FAX (8632) 244311

Dear Dr. Barkowski,

I write in response to your recent correspondence.
The President of and *IEEE Moscow Section* (and the *Popov Society*) is:

Academician Yuri V. Gulyaev
President, A.S. Popov Society
Director, Institute of Radioengineering and Electronics
USSR Academy of Sciences, 18 Marx Avenue
Moscow, GSP-3, USSR 103907
Telephone: 7-095-203-4993

A letter from the *IEEE Moscow Section* supporting your proposal is important. Traditionally, large conferences involve the active participation of the local section. This participation is especially desirable considering the unfamiliarity of the Council with holding conferences in the Soviet Union.

I have been reminded that, for international conferences, the IEEE name and logo can only be used on when sponsorship comes from an IEEE Society or Council. Sponsorship, as defined by IEEE, includes significant technical and financial support of a Council or Society. Ideally, most of those involved in the conference will be IEEE members.

I look forward to seeing your proposal. If I receive it before June 20, I can include in the mailing to AdCom members and members of the Council's Meetings Committee. Procedurally, your proposal will be considered by the Meetings Committee on Sunday, July 20, and potentially by AdCom on Monday. You are invited to attend these meetings.

I look forward to seeing you in Seattle.

Sincerely,

Robert J. Marks II, President
IEEE Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair
Patrick K. Simpson, NNC Treasurer
Evangelia Tzanakou, NNC Secretary
Russ Eberhart, NNC Vice-President
Irv Engelson, IEEE TAB

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

В С Н Т О
ЦЕНТРАЛЬНОЕ ПРАВЛЕНИЕ
 Научно-технического общества
 радиотехники, электроники и связи
 имени А. С. Попова
 103897, Москва, Центр ГСП-3,
 Кузнецкий мост, 20/8
 Телефоны: 221-71-08, 924-17-96
 Расчетный счет 700738
 в Дзержинском отделении Госбанка г. Москвы

№ 273

На № _____ от _____

Г Moscow, 4 June 1991

Prof. Robert J. Marks II
 President IEEE
 Neural Network Council
 Interactive Systems Design Lab.
 Department of Electr. Eng., FT-10
 University of Washington
 Seattle, WA 98195
 Tel: (206)543-6990
 FAX: (206)543-3842

Dear professor Marks:

Prof. W.L.Dunin-Barkowski, President of Russian Neural Network Society and Director of Neurocybernetics Research Institute of the Rostov State University informed me about plans to hold a Symposium on Neuroinformatics and Neurocomputers in Rostov 30.09 - 3.10.1992 with a substantial sponsorship of the IEEE. I suppose that the idea is good and such a symposium is apt to be successful.

Neurocybernetics Research Institute has a long-term experience of organizing All-Union and International conferences and Workshops, and Rostov is one of the USSR centers for high technology and science. In particular, NRCI organized in June 1990 USSR Academy of Science session on Informatics, Physics and Electronics of Neural and Neural-like systems. The session was fully successful.

So, I approve this Symposium and wish all the best to its organizers.

Sincerely yours

Academician Yuri V. Guljajev
 President of Moscow IEEE Section
 President A.S.Popov Society
 Director USSR Acad. Sci. Institute
 of Radioengineering and Electronics

001

Rostov State University
Neurocybernetics Research Institute
Rostov-on-Don, 344104, USSR

Facsimile Cover Sheet

The following pages are for:

Attention: Professor Robert J. Marks II, President

Name of Firm: University of Washington

Location of Firm: Seattle, WA 98195 USA

Facsimile Telephone Numbers: (206) 543-3842

From: Witali L. Dunin-Barkowsky Phone: (863-2) 28-05-88 NA

This Transmission including cover page contains 2 pages.

Date: 6/11/91 Time: _____

Comments: _____

Please call (863-2)28-05-88 if you not receive all of the pages.

Neurocybernetics Research Institute FAX NUMBER (863-2)24-43-11

002

Rostov-on-Don, June 11, 1991

Dear Professor Marks,

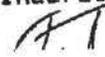
Thank you again very much for invitation at the 9 July Dinner and 10 July Reception.

I would surely take part in these meetings and RNNS authorized me to present its activity at your ceremony.

Many thanks to you for a lot of cares for me.

Hope to see you in July.

Sincerely yours



002

Rostov-on-Don, June 11, 1991

Dear Professor Marks,

Thank you again very much for detailed description of the action required for our

IEEE	NI-NC	ROSTOV-ON-DON
	92	
	HW-HK	POCTOB-HA-DOHY

IEEE 1992 Rostov-on-Don International Symposium
Neuro-Informatics and Neurocomputers.

Academician Ju.Gulyaev informed me that he approves this symposium and has sent a fax on the topic to you.

The forms with the suggestion List of Symposium Committees are sent to you in other list of this fax message. All the Soviet Committees members are informed and their content to participate is confirmed. The consultation with foreign members of Committees I hope to finish during the supposed visit to Seattle.

Of course I am appealing to you to take part in this symposium in three roles:

1) President of International Committee

Committee consists of Neural Network Societies Presidents.

2) A Member of Symposium Committee

There are only you and Prof. R. Hecht-Nielsen from foreigner in this Committee, Others are mainly honorable Russian members excluding Vice-chairman and Secretary.

3) A Member of Russian Committee

003

Appended are also the preliminary Sessions Topics and Symposium Schedule.

I hope that the assemblage of document detached to this letter may serve as a first approximation information information for IEEE Neural Network Council Administration on Participation in "NI-NC 92 R-D".

Sincerely yours



W. Dunin-Barkowski

004

IEEE NI-NC 92 ROSTOV-ON-DON
HW-HK POCTOB-HA-DOHY

IEEE 1992 Rostov-on-Don International Symposium
Neuro-Informatics and Neurocomputers.

Chairs:

Symposium Chair: Witali Dunin-Barkowsky

International Chair: Robert Marks II

(John Taylor)

Program Chair: Robert Hecht-Nielsen

Local Committee Chair: Anatoly Kovalyov

Program Committee:

Jasir Abu-Mustafa, James Albus, Leonid Bassalygo,

Roman Borisjuk, Michael Conrad, Witali Dunin-Barkowski,
Nabil Farhat, Alexander Frolov, Alexander Gorban,
Aaron Gutman, Robert Hecht-Nielsen, Masao Ito,
Larry Jackel, Anatoly Kalyaev, Christof Koch,
Touvo Kohonen, Djuro Koruga, Ernst Kussul,
Robert Marks II, Andrey Mikaelyan, Andras Pellimisz,
Alexander Petrov, Tomasso Poggio, Terrence Sejnowski,
Ilya Rybak, John Taylor, Alexander Vedenov,
Lubov Podlanchikova, Program Committee Secretary

International Committee:

Robert Marks II
John Taylor
Bernard Widrow
President Chinese Neural Network Society
President Japanese Neural Network Society
Witali Dunin-Barkowski

Symposium Committee:

Belokon A.V.
Velikhov E.P.
Vladimirovsky B.M.

005

Galushkin A.I.
Gulyaev Ju.V.
Guriev M.A.
Dunin-Barkowski W.L. - Chair
Emeliiyanov S.V.
Kalyaev A.V.
Khomyakov A.A.
Kropotov Ju.D.
Kuznetsov N.A.
Litvinov E.G.
Marks R.J. II
Mikaelyan A.L.
Pelikhov N.V. - Vice-chair
Samarin A.I.
Shevtsova N.A. - Committee Secretary
Hecht-Nielsen R.J.
Chorajan O.G.

Local Organizing Committee:

Bibikov N.G.
Bryuchomitzky Ju.A.

Efimov V.N.
Finkelstein B.A.
Kiselyov B.S.
Kovalyov A.A. - Chair
Lobanov V.S.
Pak V.G. - Secretary
Petrov A.A.
Suchov A.G.
Taubkin V.L.

Preliminary Symposium Schedule

Wednesday, September 30

10:00 a.m. Opening Ceremony
11:00 - 18:00 Plenary Sessions
18:00 - 20:00 Reception

Thursday, October 1
9:00 - 18:00 Technical Sessions
18:00 - 22:00 Party

Friday, October 2
9:00 - 16:00 Fresh Air Session
17:00 - 20:00 Technical Sessions

Saturday, October 3
9:00 12:00 Plenary Session
Closure Ceremony
13:00 - 22:00 Culture Program

Preliminary Session Topics

Topic	Chair
Natural Neural System Informatics	A.Frolov A.Pellionisz
Neurocomputer Perspectives	Robert Hecht-Nielsen Anatoly Kalyaev
Learning Networks	Teuvo Kohonen Alexander Gorban
Sensory Information Processing and Motor Control	Masao Ito W.Dinin-Barkowsky
Hard-ware Neurocomputers	Larry Jackel Christof Koch
Neural Information Theory and Coding	Jasir Abu-Mustafa Leonid Bassalygo

TAB 24



TECHNICAL ACTIVITIES BOARD

TO: Technical Activities Board
FROM: Dov Jaron, Chair, TAB Technical Meetings Council
DATE: May 7, 1991
SUBJECT: Staff Conference Management Service (CMS)

The TAB Technical Meetings Council has been working with staff on establishing a Staff Conference Management Service (CMS). The CMS should provide needed services to Societies/Councils at competitive rates, with potential to generate future income for TAB.

The CMS should function as a cost center under the general oversight of the TAB Technical Meetings Council. Plans call for initial implementation in four areas: site selection, advance registration, on-site registration and printing services. Additional services will be added to meet future needs.

The attached proposal has been developed in response to information received from Society/Council Presidents. The proposed plan was reviewed at the TAB Administration Council meeting on April 6, 1991. TABAC endorses and recommends approval of the following motion:

TAB approve the establishment of a Staff Conference Management Service (CMS), initially using existing staff, with temporary staff added, on an as needed basis. The Staff Director for Technical Activities is permitted to hire such temporary or regular staff positions, provided the projected income is sufficient to cover at least the expenses of the operation.

Requested Action: Approval of the Motion on the Staff Conference Management Service as offered above.
Reference Document: Business Plan on Centralized Conference Management (attached).

TAB 25

WHAT ARE THE BEST NETS TO HAVE
IN THE OCEAN?



IEEE CONFERENCE ON
NEURAL NETWORKS FOR
OCEAN ENGINEERING

August 15-17, 1991 ♦ Loews L'enfant Plaza ♦ Washington, D.C.

NEURAL NETS!

IEEE CONFERENCE ON NEURAL NETWORKS FOR OCEAN ENGINEERING

August 15-17, 1991
Loews L'enfant Plaza
Washington, D.C.

The Conference on Neural Networks for Ocean Engineering (CNNOE) is sponsored by the IEEE Ocean Engineering Society in cooperation with the IEEE Neural Networks Council. Neural networks are having a very large impact on several aspects of the ocean engineering environment in areas such as passive transient sonar signal classification, low-frequency active acoustic sonar signal processing, ocean surveillance, adaptive beamforming, underwater acoustic communication, and many more. This conference will, for the first time, bring the international community together in one meeting to discuss these significant advances.

ORGANIZING COMMITTEE

Honorary Chair: **Barbara L. Yoon**, DARPA
General Chair: **Rui J.P. deFigueiredo**, University of California at Irvine
Co-Chair: **Ferial El-Hawary**, Technical University of Nova Scotia
Program Chair: **Patrick K. Simpson**, General Dynamics
Finance: **Gordon Raisbeck**, Ocean Engineering Consultant

PROGRAM COMMITTEE

Chair: **Patrick K. Simpson**

Committee:

Daniel Alspach	Stephen A. Luse	Leon Sibul
Rui J.P. deFigueiredo	Thomas McKenna	James C. Solinsky
James Stark Draper	Patrick Moore	Donald F. Specht
Robert L. Field	Paul Patrick	Charles E. Stuart
Filson H. Glanz	Michael Rousseau	Terry Thompson
Alain Lemer	Dov Shazeer	Bernard Widrow

KEYNOTE SPEAKERS

Rear Admiral William C. Miller
Chief of the Office of Naval Research

Daniel L. Alspach
President, Orincon Corporation



SCHEDULE**PLENARY TALKS**

THURSDAY, AUGUST 15, 1991

7:00 pm - 9:00 pm *Opening Remarks - Bernard Widrow, Stanford University***Rear Admiral William C. Miller***Chief of the Office of Naval Research*

Rear Admiral Miller is responsible for the largest research budget in the navy. In his plenary address he will discuss his perspective of the future for neural networks in the operational navy environment.

Daniel L. Alspach*President, Orincon Corporation*

Dr. Alspach is the President of one of the most successful companies in the area of neural networks for ocean engineering. In his plenary address he will share his views on the future ocean engineering applications of neural networks over the next twenty years.

PANEL DISCUSSION

FRIDAY, AUGUST 16, 1991

7:00 pm - 9:00 pm**Rui J.P. deFigueiredo***University of California, Irvine*

Dr. deFigueiredo is the Director of the Laboratory for Intelligent Sensors and Systems at University of California, Irvine. He will lead a panel discussion of neural network and ocean engineering experts who will interactively share their opinions on neural network technology as applied to

feature extraction and classification of ocean data. Invited panelists include Professor T. Kailath and B. Widrow of Stanford University, and Drs. James Stark Draper of KTAADN, A. Lemer of Thomson Sintra ASM, J.C. Solinsky of SAIC, and D.F. Specht of Lockheed.

TUTORIALS

THURSDAY, AUGUST 15, 1991

Tutorials will be offered from 8:00 am to 12:00 noon and again from 1:00 pm to 5:00 pm

1. AUDITORY NEURAL SYSTEMS AND TIME-FREQUENCY THEORY*Les E. Atlas & Robert J. Marks II, Univ. of Washington*

Learn how to go beyond the FFT for spectral estimation. This tutorial describes a new method of frequency estimation that operates in $O(n)$ time and provides wavelet-like decomposition.

2. MARINE MAMMAL SONAR AND NEURAL NETWORKS*Whitlow W. Au, Patrick W.B. Moore & Paul E. Nachtigall, Naval Ocean Systems Center**Herbert L. Roitblat, University of Hawaii*

Learn how the bottlenosed dolphin processes sonar signals. Signal processing, feature extraction, echolocation and classification will be discussed.

3. FUZZY MODELS AND COMPUTATIONAL NEURAL NETWORKS*James C. Bezdek, University of West Florida*

Learn about fuzzy set theory, fuzzy classifiers, and their relationships to neural networks. Pattern classification and signal processing will be emphasized with several applications.

4. ENGINEERING A SOLUTION WITH NEURAL NETWORKS*Russell C. Eberhart, Johns Hopkins University, Applied Physics Laboratory*

Learn how to determine if a neural network solution is right for your problem and if it is, how to go about engineering the solution. Several applications, performance metrics, and analysis tools will be presented.

5. NEURAL NETWORKS DATA FUSION*Mitch Eggers, Houston Advanced Research Center and Rice University*

Learn how neural networks are being used to approach one of the most difficult problems in the modern computing era - data fusion. Applications and alternative approaches will be emphasized.

6. NEURAL NETWORKS FOR CONTROL*Jay A. Farrell, Charles Stark Draper Laboratories**Filson H. Glanz, University of New Hampshire**L. Gordon Kraft III, University of Connecticut*

Learn how neural networks are being used in adaptive control. Application to the undersea vehicles is the focus with many comparative examples.

7. NEURAL NETWORKS FOR SONAR TARGET CLASSIFICATION*R. Paul Gorman, Allied Signal Technology Center*

Learn how feedforward neural networks are being applied to active and passive sonar signal processing problems. Several applications will be presented in the areas of echo classification, transient identification, and side-scan sonar image recognition.

8. NEURAL NETWORKS FOR SONAR SIGNAL PROCESSING*Anthony P. Russo, AT&T Bell Laboratories*

Learn about the latest techniques for developing robust signal classification systems using feedforward neural networks. Several neural network enhancements will be reviewed and analyzed with an emphasis on application specific requirements.

SCHEDULE**PARALLEL SESSIONS**

FRIDAY, AUGUST 16, 1991

8:00 am - 12:00 noon**PASSIVE TRANSIENT CLASSIFICATION**

- Chairs: James C. Solinsky, SAIC
Richard Trueblood, Orincon
- Papers: DeSai and Shazeer, *Martin Marrietta*;
Deuser, et al, *Tracor*; Hamilton and
Cottle, *Raytheon*; Kerrigan, *GTE*
Government Systems; Pao, *Case*
Western University; Solinsky, SAIC

8:00 am - 12:00 noon**UNDERWATER IMAGE PROCESSING**

- Chairs: Alain Lemer, *Thomson Sintra ASM*
Dov Shazeer, *Draper Labs*
- Papers: Bourgeois and Walker, *NOARL*; Eapon,
NPOL; Gan, *Coustical*; Russo, *AT&T Bell*
Labs; Shazeer and Below, *Draper Labs*;
Speidel, *NOSC*

1:00 pm - 5:00 pm**ACTIVE SONAR AND BIOACOUSTICS**

- Chairs: Patrick Moore, *NOSC*
Terry Thompson, *Orincon*
- Papers: Chen, *Southern Massachusetts Univ.*;
Field, *NOARL*; Gorman, *Allied Signal, Haley,*
NUSC; Nachtigall, et al, *NOSC*; Lin, *Purdue*
Univ. Ruey-wan, Soon and Huang, *Notre*
Dame; Silven, *General Dynamics*

1:00 pm - 5:00 pm**AUV/ROV APPLICATIONS**

- Chairs: James Stark Draper, *KTAADN*
Filson Glanz, *Univ. of New Hampshire*
- Papers: Draper, *KTAADN*; Dzwonczyk, et al.,
Draper Labs; Parten & Pap, *Accurate*
Automation; Schiller and Draper, *KTAADN*;
Stover and Gibson, *Penn State ARL*;
Suebe, *Thomson Sintra ASM*; Westerman,
NOSC; Yuh and Lakshim, *Univ. of Hawaii*

PARALLEL SESSIONS

SATURDAY, AUGUST 17, 1991

8:00 am - 10:00 am**OCEAN MONITORING AND MODELING**

- Chairs: Robert L. Field, *NOARL*
Paul Patrick, *Ontario Hydro Research*
- Papers: Frankel and Draper, *KTAADN*; Haykin
and Leung, *McMaster Univ.*; Parisini, *DIST-*
University of Genoa; Ramani, et al.,
Ontario Hydro Research; Simpson,
Polytechnic Southwest

10:00 am - 12:00 pm**GOVERNMENT PROGRAM OVERVIEWS**

- Chairs: Thomas McKenna, *ONR*
Charles Stuart, *DARPA*
- Talks: R. Glass, *DARPA*; R. Kolesar, *NOSC*;
T. McKenna, *ONR*; M. Rousseau, *NUSC*

8:00 am - 12:00 pm**PASSIVE SONAR SIGNAL PROCESSING**

- Chairs: R. Paul Gorman, *Allied Signal*
Donald F. Specht, *Lockheed*
- Papers: Greene, *Univ. of New Orleans*; Hamilton
and Pridham, *Raytheon*; Lemer and
Lefebvre, *Thomson Sintra ASM*, Montanna,
Bolt Beranek and Nowmann; Perlovsky,
Nichols Research; Zakarauskas, et al., *DREP*

1:00 pm - 5:00 pm**NEURAL NETWORK CLASSIFIERS**

- Chair: Michael Rousseau, *NUSC*
- Papers: Fogel and Fogel, *Orincon*; Glanz and
Miller, *University of New Hampshire*;
Simpson, *General Dynamics*; Sin and
deFigueiredo, *University of California,*
Irvine

1:00 pm - 5:00 pm**NEURAL NETWORK ANALYSIS**

- Chair: Leon Sibul, *Penn State ARL*
- Papers: Barton, et al., *Orincon*; Jacyna, *Mitre*;
Moura, *Carnegie Mellon*; Papantoni-
Kazakos and Kazakos, *University of*
Virginia

CONFERENCE INFORMATION

CONFERENCE SETTING

Located in the heart of Washington's business and government community and within walking distance of many historic sites including the Air and Space Museum, Smithsonian, the Capitol and the Washington Monument, and less than ten minutes from National Airport, the Conference on Neural Networks for Ocean Engineering will be held:

Loews L'enfant Plaza Hotel
480 L'enfant Plaza S.W.
Washington, D.C. 20024
Reservations: (202) 484-1000

All participants of the CNNOE will receive a special room rate of \$105 for either Single or Double occupancy. Reservations received after **July 22, 1991** will be confirmed on a space- and rate-available basis. Also available to Conference participants are special *Club 480 rooms which include breakfast, newspaper, King or Queen size bed, sitting area and other unique amenities. *Club 480 room rates are \$175. **PLEASE RESERVE EARLY.**

REGISTRATION FEES

Full Registration Fee includes admission to all sessions, reception, and banquet, plus Proceedings. A discount is allowed to all current IEEE members. Member Number required.

IEEE Member Registration Fees:	Non-Member Registration Fees:
\$185 Before July 1, 1991	\$245 Before July 1, 1991
\$240 Before August 9, 1991	\$300 Before August 9, 1991
\$270 After August 9, 1991	\$330 After August 9, 1991
\$ 60 Student*	\$120 Student*

*Student Registration applies to full-time students only. A letter from your department head verifying status is required. At conference check-in, you must present a current student ID. Fee includes admission to all sessions and reception only. Proceedings are not included.

TUTORIAL REGISTRATION FEES

Only registered conference participants may register for Tutorials.

One Tutorial.....\$150 Two Tutorials.....\$250

**All foreign payments must be made by draft by a U.S. bank in U.S. dollars.
NO CREDIT CARDS ACCEPTED.**

Cancellations: If conference or tutorials registration is cancelled prior to August 13, 1991, your fee less U.S. \$30 for administrative cost, will be refunded upon written request. No refunds will be made for cancellations received after August 13, 1991.

FURTHER INFORMATION

For further information, call or write:

CNNOE
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
Tel. (619) 453-6222
FAX (619) 535-3880

AIRLINE TRANSPORTATION

American Airlines offers special fares for participants of the CNNOE. **40% off** on all regular coach fares or **5% off** Supersaver fares. From Canada: **35% off** coach, if applicable.

To make your reservation call Terra Tours & Travel (800) 444-9554 in the U.S. From Canada call (619) 454-9551. This offer is valid August 10-21. Discounted seats are limited. PLEASE CALL EARLY.

HOTEL RESERVATION FORM

Neural Networks for Ocean Engineering
August 15-17, 1991

Loews L'enfant Plaza Hotel
Reservations: (202) 484-1000

Single \$105
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 Club 480 \$175

DEADLINE DATE: JULY 22, 1991

All rates subject to applicable taxes.

Check in time 3:00 pm - Check out time 1:00 pm

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Firm _____

Street _____ City _____

State _____ Zip _____ Telephone Office (____) _____ Home (____) _____

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Reservations are not transferable and are held until 6:00 pm unless guaranteed by one of the following:

American Express Card Diners Club Card Card # _____ Exp. Date _____

Signature _____ Advance Deposit (One Night) _____

Failure to receive your cancellation notice 24 hours prior to the day of arrival will result in one night's charge.

Mail to: **Loews L'enfant Plaza Hotel**
480 L'enfant Plaza, S.W.
Washington, D.C. 20024

CONFERENCE REGISTRATION FORM

CNNOE
August 15-17, 1991

Last Name _____ First Name _____ M.I. _____

Address _____ Dr. Mr. Ms.

City _____ State _____ Zip _____

Telephone Office (____) _____ FAX (____) _____

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Before July 1st _____ \$185 Member _____ \$245 Non-Member
Before August 9th _____ \$240 Member _____ \$300 Non-Member
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Student _____ \$60 Member _____ \$120 Non-Member
(verification of student status required)

TUTORIAL FEE ENCLOSED:

One Tutorial _____ \$150 Circle One: 1 2 3 4 5 6 7 8
Two Tutorials _____ \$250 Circle Two: 1 2 3 4 5 6 7 8

MAKE CHECK PAYABLE TO:

IEEE CNNOE
Mail to: CNNOE Registration
Meeting Management
5665 Oberlin Drive, Suite 110
San Diego CA 92121

TAB 26

- Coordinating Society membership promotions;
- Providing Chapters support; and
- Processing Society award requests.

For additional information on these services, and the required lead times, please contact Marsha Tickman or Rosanne Loyal in the Society General Activities office.

Products Management

The Products Management Department, overseen by Gerald Lapidus, administers various business aspects of TAB and Society related products, such as conference records and the All Societies Periodicals Package. This department, along with Conference Services, jointly administers the Book Broker program. Working in conjunction with IEEE Marketing, the Products Management Department develops and supports marketing and promotion programs to stimulate the sale of conference records and the All Periodicals Package. These programs are directed to libraries, booksellers, and individuals.

TAB Council/Committee Staff

TAB Administration Council	Laura Jobmann Georgina Crane Stacy Marccone Dino Sethi Georgina Crane Cindy Jablonowski Mary Ann DeWald Marsha Tickman
TAB Liaison Council	
TAB Periodicals Council	
TAB Publications Products Council	
TAB Technical Meetings Council	
TAB Awards & Recognition Committee	
Book Broker Committee	Cindy Jablonowski Marsha Tickman
RAB/TAB Chapters Committee	
TAB Finance Committee	Tania Skrinnikov Jayne Cerone
TAB New Technology Directions Committee	
TAB Nominations and Appointments Committee	Laura Jobmann
TAB Staff Activities Committee	Irving Engelson Dino Sethi
TAB Strategic Planning and Review Committee	

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FOR YOU LATELY?

A GUIDE TO STAFF SERVICES

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Piscataway, NJ 08855-1331, U.S.A.
Telephone: (908) 562-3900
FAX: (908) 562-1571



Dear Reader:

This brochure gives an overview of the IEEE Technical Activities Department (TAD) and the various ways we support YOUR work with the IEEE.

The TAD staff provides general administrative support to the 37 IEEE Societies and Technical Councils, as well as the Technical Activities Board and its Administrative Councils and Committees.

There are specialized groups within TAD assigned to help volunteers with specific aspects of IEEE policies and procedures. These groups are Conference Services, Finance, TAB Secretariat, Society General Activities, and Products Management. This brochure describes these functions. Additional staff provide general support.

We also have staff who are dedicated to -- and funded by -- individual Societies.

The information in this brochure is accurate as of June 1991; an updated brochure will be published in early 1992.

Most of the TAD staff are located at the IEEE offices in Piscataway, New Jersey. We also maintain an office in Brussels, Belgium. A directory of names and phone numbers is included on the back of this brochure. If you have any questions on this material, please call the staff person(s) listed as a contact(s) in that particular area.


Irving Engelson, Ph.D.
Staff Director

June 1991

Conference Services

The Conference Services staff, under the direction of Perry Sensi, is available to assist the conference organizing committees and Society officers of all IEEE sponsored and cosponsored conferences.

Their activities include:

- general conference planning assistance;
- assistance in publicity to IEEE members;
- coordination of the budget review process;
- support in production of conference records;
- administration of post-conference record sales (in conjunction with the IEEE Marketing Department); and
- review of post-conference financial reports.

In addition, the Department publishes the Technical Activities Guide, a quarterly publication listing upcoming IEEE conferences.

Society and Council Finances

Services involving Society finances are coordinated through the TAB Finance office under the direction of Tania Skrinnikov. She works with Society officers to develop the annual Society budget, based on past performance and a series of guidelines involving membership, conferences and publications. Mailings of the Financial Operating Statement keep both the volunteers and staff up-to-date on the finances of each Society.

Marilyn Prusan, the Finance Administrator, fulfills requests for conference loans, travel/editorial advances and reimbursement of expenses. This office also processes financial awards. Heidi Zazza-Roth, Finance Administrator, handles the processing of payments to Conferences for purchases of conference records through the Book Broker Program.

Support to the Technical Activities Board

Primary support to the Technical Activities Board is provided by the TAB Secretariat. Managed by Laura Jobmann, the Secretariat coordinates various aspects of TAB meetings; keeps up-to-date records of TAB rosters, appointments and charters; acts as an interface between TAB and other Boards and Committees and the IEEE staff; produces the TAB Roster; assists with Committee mailings and meetings; maintains archival records of TAB and its Councils/Committees; and prepares reports, including "Newsbriefs."

In addition, selected TAD staff provide administrative support to the Councils and Committees of the Technical Activities Board. The staff contact person for each Council/Committee is listed at the end of this brochure.

General Support to Societies and Technical Councils

A wide range of administrative services are available for Societies and Technical Councils through the Society General Activities office headed by Marsha Tickman. Some of the services include:

- Mailing of AdCom Meeting Notices, Agendas and Minutes;
- Printing of Society/Council stationery;
- Running Society/Council elections -- including distributing the call for nominations, preparing the ballot, tallying votes and announcing the election results;
- Obtaining mailings labels, rosters and statistics;
- Maintaining committee rosters;
- Providing new member labels and mailing Welcome Letters;
- Keeping records of all Society/Council Constitutions and Bylaws;
- Acting as an archive for AdCom minutes and other key documents;

TAB 27

EXCOM MINUTES - FEBRUARY 7, 1991

Present

- R. Marks, presiding
- R. Eberhart
- P. Simpson, acting secretary
- M. Roth
- B. Dickinson
- R. Nutter
- T. Fukuda

The meeting was called to order at 2:00 pm PST. The agenda was adopted with the following changes:

1. "Officer Liason Duties" deleted from President's Report
2. "Fuzzy Conference" added to President's Report
3. "NNC Newsletter" added to Old Business
4. "Next AdCom Meeting" added to Old Business
5. "Summary of Action Items" added as item 10.

Marks reported on the recent TAB meetings. TAB is experiencing financial hardship and has been given a loan from the IEEE. Modifications have been made to the publications rate. Roth and Simpson have received copies of the modifications.

A President's Breakfast that would gather all of the presidents of all the neural network societies from around the world was approved. The invitation list includes:

- IEEE
- International Neural Network Society
- Japanese Neural Network Society
- Australian Neural Networks Society
- Chinese Neural Network Society
- Russian Neural Network Society
- Joint European Neural Network Initiative

It was approved that the IEEE NNC would offer to pay for travel and 1 night lodging.

The Singapore budget had not been approved yet. Eberhart will secure a current copy and submit it to a mail ballot vote for approval.

The Standards Committee has been elevated from an AdHoc Committee to a full Standing Committee. The Auburn NN Workshop showed great interest. Tzanakou is currently the Chair, but a full time replacement is being sought.

The ExCom went into Executive Session to discuss the INNS/IEEE Dissolution Agreement. As a result of the Executive Session there were two action items:

1. Marks will draft a letter to Werbos (INNS President) describing the dissolution.
2. The IEEE NNC symbol will be registered.

The IJCNN 89 Audit will be officially submitted to IEEE HQ with documentation supporting the financial practices during and after the conference.

The Beijing IJCNN is coming along. A general chair needs to be approved. Marks is empowered to do this.

The Portland IJCNN Chair (Lendaris) has not been approved by the INNS. This will be cited as a dissolution condition in Marks letter to Werbos.

Summary of Action Items:

1. Registration of IEEE NNC Symbol (Marks)
2. Dissolution Letter (Marks)
3. President's Breakfast (Marks)
4. Type Minutes (Simpson)
5. Singapore Budget Approval (Eberhart)
6. 89 Audit Distribution (Simpson/Marks)
7. Standards Committee Chair (Marks)

Meeting was adjourned at 3:10 pm PST.

TAB 28

DRAFT

The IEEE NNC ExCom meet via conference call April 22, 1991. Bob Marks called the meeting to order at 10:15 am (PDT).

Attendance: Present: Marks, Eberhart, Tzanakou, Simpson, Roth, Dickinson (*ex-officio*), Fukuda (*ex-officio*), Nutter (*ex-officio*), Ruth Wagner (secretary). Absent: Karplus (*ex-officio*).

Adoption of Agenda - The following Agenda was adopted.

- Adoption of agenda
- Approval of minutes
- President's report
 - Towards a Society
 - 1989 Washington, DC, IJCNN
 - Council Registration
 - IEEE Awards
 - 1992 Fuzz-IEEE
 - Educational Activities
 - Council Trademark
 - Fuzzy Transactions Ad Hoc Committee
 - INNS Relation
 - 1991 Seattle IJCNN
- Vice President's report
 - INNS
 - Committee Support
- Editor's report
- Secretary's report
- Treasurer's report
- Standing Committee reports
- Old Business
 - Future Meeting Dates
- New Business
 - Meetings
 - Soviet Conference
 - Intelligent Vehicles
 - Next ExCom

Approval of minutes: As the minutes of the previous ExCom meeting were not in the packet, it was agreed to review them along with these minutes at the next meeting.
Action Item: Pat Simpson agreed to Draft the minutes & forward them to Marks.

PRESIDENT'S REPORT (Marks)

NNC Council ExCom Proprietary: There was consensus that the Council should move towards a Society by 1993 following the outline proposed by Marks.

Action Item: Pat Simpson will draft an updated statement of purpose to reflect the Council's involvement in the broader areas of biologically and linguistically motivated systems.

Action Item: Marks will appoint an ad hoc Committee to put together a proposal for consideration of an IEEE Transactions on Fuzzy Systems. Zadeh and Bezdek will be asked to be members.

1989 IEEE/INNS IJCNN Washington D.C audit

Action by Consensus:

1. Simpson will check to see if accounts have been closed for the \$2000 and will inform Marks of the results.
2. Letters to IEEE Audit Committee and/or the Members Misconduct Committee concerning the finances of the Washington IJCNN will be sent by Marks.

By consensus ACTION ITEM: Tzanakou will be the point person to insure registration of the Council in the Engineering organizations catalog.

Information Item: Any information or suggestions for awards listed in the appendix of the meeting material should be forwarded to the Awards Chair, Brad Dickinson.

Bezdek has submitted the 1992 FUZZ-IEEE budget to IEEE.

ACTION: Refer to the meetings committee for approval and then to AdCom.

Taping Sessions - Peter Wiesner, Manager, Individual Learning Activities, approached Marks about recording the sessions at IJCNN in Seattle. Extensive discussion followed as to how to do this to get good quality tapes. Possibilities are (1) the tapes could be done in a separate taping room or (2) that they be done after the conference when it could be edited. It was suggested that an ad hoc committee be formed and that one or universities with facilities for taping classes be contacted. Concentration will be on Fuzzy and Neural Nets. The question was raised as to what's in it for the author. It would probably be run like IEEE Press-with an upfront amount for lodging, travel. EAD was what their involvement would be. The question was not answered directly but they would send out publicity. Suggested committee: Mohamed El-Shakarwi (UW); Simpson (who has been a member of a similar committee); Karen Haines.

Trademark Registration - Moved by Eberhart, seconded by Dickinson to use \$1,000 of funds to trademark the ICNN name and logo.

Action Item: Simpson will fill out the forms and submit the trademark forms.

INNS Relations: The INNS has sponsored a neural nets meeting within one month of the Singapore IJCNN. This is in violation of the Agreement between the Societies. Marks wrote a letter of protest to Werbos.

ACTION: Refer to IOC and Meetings Committee.

IEEE Press would like NNC to sponsor the reprint books edited by Dr. Clifford Lau.

ACTION by CONSENSUS: The Council will offer to sponsor both of the Lau books. The Council will promote the Lau book in a newsletter ad for the period of one year.

VICE-PRESIDENT's REPORT (Eberhart)

The INNS headed Seattle IJCNN accepted 300 out of 700 accepted papers. Marks stated his concerns were two fold:

1. There will be a strong negative financial impact on the conference.

2. The reputation of the conference would be hurt. The INNS requested an additional 12.5k to accept the remaining 400 papers as posters and simply publish the abstracts.

MOTION: The request by INNS be rejected.

The motion passed unanimously.

ACTION: Marks inform Werbos of the decision. Marks will ask Werbos that any additional business conducted by INNS that needs to be bought before the Council be done so in writing.

ACTION: Marks & Fukuda send a letter to all those who submitted a paper to the Seattle IJCNN encouraging them to submit to the Singapore IJCNN. Litsa and Roy will comment on drafts of the letter. Marks will write first draft.

MOTION: Up to \$1000 in Council funds be allotted to Pat Reilly to attend the next COMAR meeting. The motion passed unanimously.

EDITOR's REPORT (Roth)

The approved increase in Transactions pages would take effect next calander year.

SECRETARY's REPORT (Tzanakou)

none

TREASURER's REPORT (Simpson)

The Council's Budget is soon due. Supply any input soon.

STANDING COMMITTEE REPORTS

Awards (Dickinson)

The results of the Poineer and Paper of the year awards will be soon subjected to mail vote by AdCom. The awards will be given at the reception of the Seattle IJCNN.

Publications (Fukuda)

Book proposals from Bezdek would be coming forth soon.

Meetings (Nutter)

MOTION: San Francisco was apoproved as the FUZZ-IEEE 93 sight subject to approval of the meetings committee and AdCom. Nutter will contact Nomi about this.

MOTION: Washington D.C. will be the sight of the World Congress on Intelligent Systems subject to approval of the meetings committee and AdCom. Roy will so inform Nomi.

ACTION: The meetings committee will recomend chairs for the FUZZ-IEEE 93 and the World Congress Conferences.

ACTION: Marks will follow up on the Soviet letter and appoint a conference advisor.

MOTION: The NNC will be a cooperating society for the intelligent vehicles workshop if it is not within a month of the Beijing IJCNN. Roy will send the letter.

OLD BUSINESS

Already Covered

NEW BUSINESS

ExCom will be held in Singapore. Eberhart and Roth will investigate use of video teleconferencing possibilities.

The meeting was adjourned at 12:03 P.M., PDT by
Bob Marks.

compiled by Ruth Wager & Bob Marks

TAB 29

June 15, 1991

IEEE Council on Neural Networks:

Ex Com (1991)

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IEEE Transactions on Neural Networks

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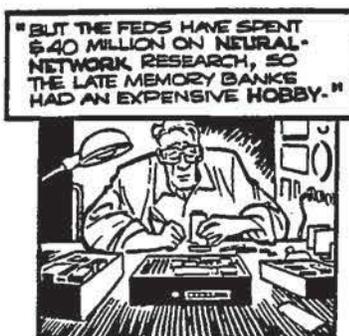
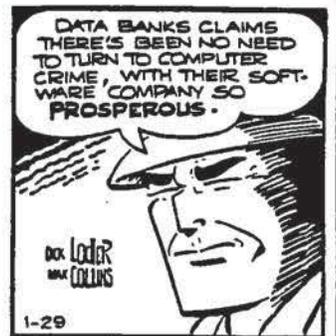
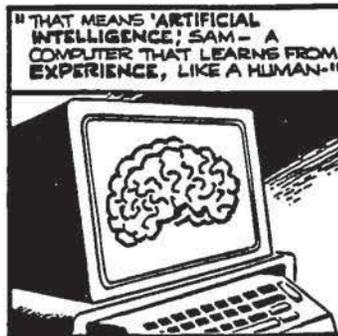
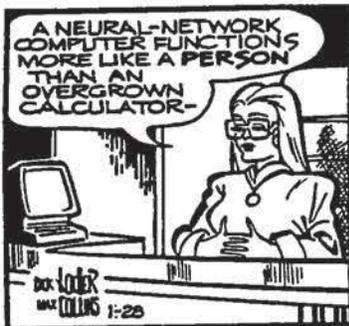
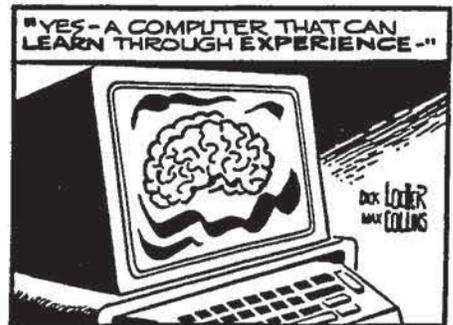
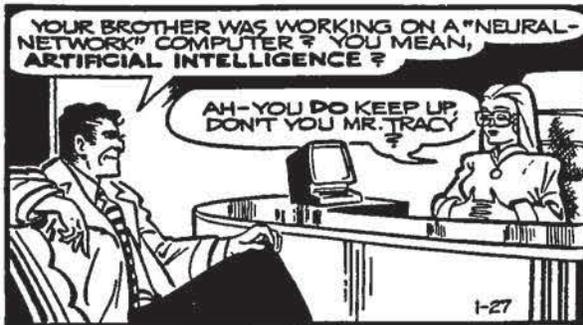
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Dr. Marks,

I would like to request permission to formally associate the IEEE Phoenix Section Neural Networks Technical Interest Group with the IEEE Neural Networks Council preparatory to the latter's attainment of Society status.

I would also like to request \$1000 to begin implementation of the Council's Distinguished Lecturer program here.

Our first meeting will be held Thursday, November 14, 1991 at Arizona State University in Phoenix. I will supply a signature list of those attending and expressing interest in forming a Neural Networks Chapter as soon as it is available. So far we have been contacted by personnel from Motorola, Intel, Honeywell, American Express, Citibank, ASU and TRW.

In addition to providing a forum for dissemination of technical ideas I hope to interest the members (and guest speakers?) in talking to young people face-to-face in order to encourage them to pursue technical educations. Enthusiasm is infectious and our field seems to have an abundance of it!

Thank you for your consideration.

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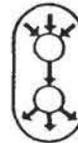
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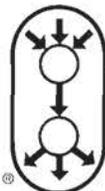
Dear ExCom Members,

Attached is material concerning our Executive Session of ExCom.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bob' with a horizontal line extending to the right.

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Lake Buena Vista, FL 32830-2653

RE: IEEE World Congress on Intelligent Systems
1994 Conference
June 25-July 1, 1994

Dear Veronica:

We wanted to inform you that the Neural Networks Council of the IEEE is proposing the Walt Disney World Dolphin Hotel as the site of the 1994 IEEE World Congress on Intelligent Systems, June 25-July 1, 1994.

As always, we will need to go through our standard approval processes before signing the contract forwarded to us.

This document is to act as our letter of intent, as requested, so the hotel can release the above-referenced dates to us on a first-option basis.

Should you need anything further, please do not hesitate to give Nomi Feldman or Ellen Casey at Meeting Management a call.

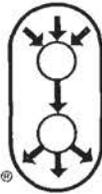
Thank you for your prompt response to our requests.

Sincerely,

Robert J. Marks, II
IEEE NNC President

RJM/eac

cc: Nomi Feldman
Ellen Casey



IJCNN
INTERNATIONAL
JOINT CONFERENCE
ON NEURAL NETWORKS
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
TEL. (619) 453-6222 FAX (619) 535-3880

*Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society*

October 30, 1991

Ms. Veronica
National Ac
Walt Disney
1500 EPCOT
Lake Buena

RE: IEEE
1994
June

for your files

Dear Veron

We wanted
the IEEE
the site
Systems, i

f
s
t

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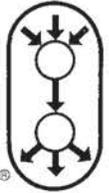
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IEEE NNC President

RJM/eac

cc: Nomi Feldman
Ellen Casey



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San Diego, CA 92121
TEL. (619) 453-6222 FAX (619) 535-3880

Came
Express
Mail

Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society

MEMORANDUM

October 29, 1991

TO: BOB MARKS

FROM: ELLEN A. CASEY, CMP 

RE: 1994 WORLD CONGRESS ON INTELLIGENT SYSTEMS
WALT DISNEY WORLD DOLPHIN
ORLANDO, FLORIDA

As discussed last week, the hotel needs our "intentions" in writing to officially place the IEEE meeting on first-option tentative status. Even though they already have asked for the space, and have had the other group release the space to us, they need something more than our "word" that we are seriously considering their property.

If the enclosed draft meets with your approval, please sign the letter and fax it to Veronica Cotter's administrative assistant, Ellen Brogden at 407/934-4099.

Also, enclosed is the original contract, and two (2) copies. The original is for you to sign. One copy is to be sent to IEEE for their approval and the other is for your files.

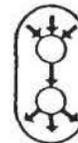
Please sign the original contract and date it for November 19, 1991, and send it to our office before you leave for Singapore. We will then HOLD the contract until we receive word from you by fax that the committee has approved the dates and location for the conference. Then, and not before, we will forward the contract to the hotel.

Additionally, as Nomi discussed with you yesterday, the hotel has offered us a \$140 single/double rate if we can return the signed contract to them prior to November 21, 1991. If you would, after the official approval, please fax us a signed copy of the contract. We will then forward it to the hotel.

Should you have any questions, Bob, please do not hesitate to give us a call. It seems that we will have lower rates in Florida than in Washington, DC due to the proximity to the 4th of July holiday.

Talk with you soon!

/eac



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

11-7-91

Administrative Confidential

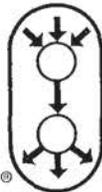
Dear ExCom Members,

Attached is a copy of the SCUD mail and some of it's responses.

Sincerely,

A handwritten signature in cursive script that reads 'Bob' followed by a horizontal line.

Robert J. Marks II, President
IEEE Neural Networks Council



IJCNN
INTERNATIONAL
JOINT CONFERENCE
ON NEURAL NETWORKS
5665 Oberlin Drive, Suite 110
San Diego, CA 92121
TEL. (619) 453-6222 FAX (619) 535-3880

*Sponsored by the IEEE Neural Network Committee
and the International Neural Network Society*

October 30, 1991

Ms. Veronica I. Cotter
National Account Manager
Walt Disney World Dolphin
1500 EPCOT Resorts Boulevard
Lake Buena Vista, FL 32830-2653

RE: IEEE World Congress on Intelligent Systems
1994 Conference
June 25-July 1, 1994

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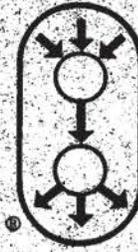
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Robert J. Marks, II
IEEE NNC President

RJM/eac

cc: Nomi Feldman
Ellen Casey



IEEE Neural Networks Council

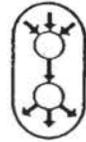
◆ Ex Com ◆

Westin Hotel & Convention Center

November 18, 1991



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

11-6-91

Dear NNC ExCom Members,

Greetings!

In this book is the material related to many items to be discussed at our November 18, 1991 ExCom meeting at the Westin in Singapore.

I look forward to seeing you in Singapore!

Sincerely,

A handwritten signature in black ink that reads "Bob" with a horizontal line extending to the right.

Robert J. Marks II, President
IEEE Council on Neural Networks

~~Bob
A. K. I. A.~~

Proposed Agenda

IEEE Council on Neural Networks ExCom Meeting

Ponté

Nagle
Snyder
Haines
Rosenfeld

- ◆ Greetings
- ◆ Approval of Agenda
- minutes
- ◆ Approval of Minutes
- ◆ Reports

⇒TAB 1 ⇒

◦ President's Report

(Marks)

- Field of Interest
- Review of Council
- CD RomComCon
- Presidents' Dinner
- TAB Resources
- INNS Relations

⇒TAB 2 ⇒

⇒TAB 3 ⇒

⇒TAB 4 ⇒

◦ Vice-President's Report

(Eberhart)

◦ Treasurer's Report

(Simpson)

- Trademark Status
- 1992 Budget Status
- Investment
- Entitlement reduction

⇒TAB 7 ⇒

⇒TAB 8 ⇒

◦ Secretary Report

(Tzanakou)

◦ Meetings

(Nutter)

- Workshop Cluster
- Washington D.C. IJCNN (audit)
- Singapore IJCNN
- San Diego Section Meeting
- FUZZ IEEE '92
- Baltimore IJCNN
- Rostov-on-Don Symposium
- FUZZ-IEEE '93
- Beijing IJCNN
- Nagoya IJCNN
- Inverse Forum
- Power Forum '93
- SP Forum
- Technical Co-Sponsorship
- Meeting Management Contract

(Marks)

⇒TAB 9 ⇒

(Marks)

⇒TAB 10 ⇒

(Simpson)

(Marks)

(Simpson)

⇒TAB 11 ⇒

(Simpson)

⇒TAB 12 ⇒

(Marks)

⇒TAB 13 ⇒

(Marks)

⇒TAB 14 ⇒

(Eberhart)

⇒TAB 15 ⇒

(Fukuda)

⇒TAB 16 ⇒

(Marks)

⇒TAB 17 ⇒

(Marks)

⇒TAB 18 ⇒

(Marks)

⇒TAB 19 ⇒

(Marks)

⇒TAB 20 ⇒

(Marks)

◦ Publications

(Fukuda)

- IEEE Trans on Fuzzy Systems

(Marks)

⇒TAB 21 ⇒

◦ Standards

(Tzanakou)

◦ Other Reports

- COMAR
- Video Tutorials
- Distinguished Lecturers

(Marks)

⇒TAB 22 ⇒

(Marks)

(Marks)

⇒TAB 23 ⇒

Council
Historian

Local
sections
chapters

Nagle

Budget
OK'd

IEEE
Trans
on NN's
Newsletter

Good Paper 375

(cont)

chapters

Proposed Agenda (cont)

◆ Old Business

- Towards a Society
- Other

Rosanne Loyd
908-562-3704
(Eberhart/Marks)

◆ New Business

- Council Structure
- Stationary Ordering

(Eberhart/Marks)

⇒TAB 24 ⇒

- Ceremonial passing of President's gavel!
- Other

(Eberhart/Marks)

Seattle

\$1000

◆ ADJOURN TO EXECUTIVE SESSION

◆ APPENDICES

- Baltimore NNC AdCom Minutes (draft)
- Seattle IOC Minutes (draft)
- Seattle Meetings Committee Minutes (draft)
- Seattle NNC AdCom Minutes (draft)
- NNC Constitution & Bylaws
- NNC AdCom Members

⇒TAB 25 ⇒

⇒TAB 26 ⇒

⇒TAB 27 ⇒

⇒TAB 28 ⇒

⇒TAB 29 ⇒

⇒TAB 30 ⇒

TAB 1

EXCOM MINUTES - FEBRUARY 7, 1991

Present

- R. Marks, presiding
- R. Eberhart
- P. Simpson, acting secretary
- M. Roth
- B. Dickinson
- R. Nutter
- T. Fukuda

The meeting was called to order at 2:00 pm PST. The agenda was adopted with the following changes:

1. "Officer Liason Duties" deleted from President's Report
2. "Fuzzy Conference" added to President's Report
3. "NNC Newsletter" added to Old Business
4. "Next AdCom Meeting" added to Old Business
5. "Summary of Action Items" added as item 10.

Marks reported on the recent TAB meetings. TAB is experiencing financial hardship and has been given a loan from the IEEE. Modifications have been made to the publications rate. Roth and Simpson have received copies of the modifications.

A President's Breakfast that would gather all of the presidents of all the neural network societies from around the world was approved. The invitation list includes:

- IEEE
- International Neural Network Society
- Japanese Neural Network Society
- Australian Neural Networks Society
- Chinese Neural Network Society
- Russian Neural Network Society
- Joint European Neural Network Initiative

It was approved that the IEEE NNC would offer to pay for travel and 1 night lodging.

The Singapore budget had not been approved yet. Eberhart will secure a current copy and submit it to a mail ballot vote for approval.

The Standards Committee has been elevated from an AdHoc Committee to a full Standing Committee. The Auburn NN Workshop showed great interest. Tzanakou is currently the Chair, but a full time replacement is being sought.

The ExCom went into Executive Session to discuss the INNS/IEEE Dissolution Agreement. As a result of the Executive Session there were two action items:

1. Marks will draft a letter to Werbos (INNS President) describing the dissolution.
2. The IEEE NNC symbol will be registered.

The IJCNN 89 Audit will be officially submitted to IEEE HQ with documentation supporting the financial practices during and after the conference.

The Beijing IJCNN is coming along. A general chair needs to be approved. Marks is empowered to do this.

The Portland IJCNN Chair (Lendaris) has not been approved by the INNS. This will be cited as a dissolution condition in Marks letter to Werbos.

Summary of Action Items:

1. Registration of IEEE NNC Symbol (Marks)
2. Dissolution Letter (Marks)
3. President's Breakfast (Marks)
4. Type Minutes (Simpson)
5. Singapore Budget Approval (Eberhart)
6. 89 Audit Distribution (Simpson/Marks)
7. Standards Committee Chair (Marks)

Meeting was adjourned at 3:10 pm PST.

The IEEE NNC ExCom meet via conference call April 22, 1991. Bob Marks called the meeting to order at 10:15 am (PDT).

Attendance: Present: Marks, Eberhart, Tzanakou, Simpson, Roth, Dickinson (*ex-officio*), Fukuda (*ex-officio*), Nutter (*ex-officio*), Ruth Wagner (secretary). Absent: Karplus (*ex-officio*).

Adoption of Agenda - The following Agenda was adopted.

- Adoption of agenda
- Approval of minutes
- President's report
 - Towards a Society
 - 1989 Washington, DC, IJCNN
 - Council Registration
 - IEEE Awards
 - 1992 Fuzz-IEEE
 - Educational Activities
 - Council Trademark
 - Fuzzy Transactions Ad Hoc Committee
 - INNS Relation
 - 1991 Seattle IJCNN
- Vice President's report
 - INNS
 - Committee Support
- Editor's report
- Secretary's report
- Treasurer's report
- Standing Committee reports
- Old Business
 - Future Meeting Dates
- New Business
 - Meetings
 - Soviet Conference
 - Intelligent Vehicles
 - Next ExCom

Approval of minutes: As the minutes of the previous ExCom meeting were not in the packet, it was agreed to review them along with these minutes at the next meeting.
Action Item: Pat Simpson agreed to Draft the minutes & forward them to Marks.

PRESIDENT's REPORT (Marks)

NNC Council ExCom Proprietary: There was consensus that the Council should move towards a Society by 1993 following the outline proposed by Marks.

Action Item: Pat Simpson will draft an updated statement of purpose to reflect the Council's involvement in the broader areas of biologically and linguistically motivated systems.

Action Item: Marks will appoint an ad hoc Committee to put together a proposal for consideration of an IEEE Transactions on Fuzzy Systems. Zadeh and Bezdek will be asked to be members.

1989 IEEE/INNS IJCNN Washington D.C audit

Action by Consensus:

1. Simpson will check to see if accounts have been closed for the \$2000 and will inform Marks of the results.
2. Letters to IEEE Audit Committee and/or the Members Misconduct Committee concerning the finances of the Washington IJCNN will be sent by Marks.

By consensus ACTION ITEM: Tzanakou will be the point person to insure registration of the Council in the Engineering organizations catalog.

Information Item: Any information or suggestions for awards listed in the appendix of the meeting material should be forwarded to the Awards Chair, Brad Dickinson.

Bezdek has submitted the 1992 FUZZ-IEEE budget to IEEE.

ACTION: Refer to the meetings committee for approval and then to AdCom.

Taping Sessions - Peter Wiesner, Manager, Individual Learning Activities, approached Marks about recording the sessions at IJCNN in Seattle. Extensive discussion followed as to how to do this to get good quality tapes. Possibilities are (1) the tapes could be done in a separate taping room or (2) that they be done after the conference when it could be edited. It was suggested that an ad hoc committee be formed and that one or universities with facilities for taping classes be contacted. Concentration will be on Fuzzy and Neural Nets. The question was raised as to what's in it for the author. It would probably be run like IEEE Press-with an upfront amount for lodging, travel. EAD was what their involvement would be. The question was not answered directly but they would send out publicity. Suggested committee: Mohamed El-Shakarwi (UW); Simpson (who has been a member of a similar committee); Karen Haines.

Trademark Registration - Moved by Eberhart, seconded by Dickinson to use \$1,000 of funds to trademark the ICNN name and logo.

Action Item: Simpson will fill out the forms and submit the trademark forms.

INNS Relations: The INNS has sponsored a neural nets meeting within one month of the Singapore IJCNN. This is in violation of the Agreement between the Societies. Marks wrote a letter of protest to Werbos.

ACTION: Refer to IOC and Meetings Committee.

IEEE Press would like NNC to sponsor the reprint books edited by Dr. Clifford Lau.

ACTION by CONSENSUS: The Council will offer to sponsor both of the Lau books. The Council will promote the Lau book in a newsletter ad for the period of one year.

VICE-PRESIDENT'S REPORT (Eberhart)

The INNS headed Seattle IJCNN accepted 300 out of 700 accepted papers. Marks stated his concerns were two fold:

1. There will be a strong negative financial impact on the conference.

2. The reputation of the conference would be hurt. The INNS requested an additional 12.5k to accept the remaining 400 papers as posters and simply publish the abstracts.

MOTION: The request by INNS be rejected.

The motion passed unanimously.

ACTION: Marks inform Werbos of the decision. Marks will ask Werbos that any additional business conducted by INNS that needs to be bought before the Council be done so in writing.

ACTION: Marks & Fukuda send a letter to all those who submitted a paper to the Seattle IJCNN encouraging them to submit to the Singapore IJCNN. Litsa and Roy will comment on drafts of the letter. Marks will write first draft.

MOTION: Up to \$1000 in Council funds be allotted to Pat Reilly to attend the next COMAR meeting. The motion passed unanimously.

EDITOR's REPORT (Roth)

The approved increase in Transactions pages would take effect next calander year.

SECRETARY's REPORT (Tzanakou)

none

TREASURER's REPORT (Simpson)

The Council's Budget is soon due. Supply any input soon.

STANDING COMMITTEE REPORTS

Awards (Dickinson)

The results of the Poineer and Paper of the year awards will be soon subjected to mail vote by AdCom. The awards will be given at the reception of the Seattle IJCNN.

Publications (Fukuda)

Book proposals from Bezdek would be coming forth soon.

Meetings (Nutter)

MOTION: San Francisco was apoproved as the FUZZ-IEEE 93 sight subject to approval of the meetings committee and AdCom. Nutter will contact Nomi about this.

MOTION: Washington D.C. will be the sight of the World Congress on Intelligent Systems subject to approval of the meetings committee and AdCom. Roy will so inform Nomi.

ACTION: The meetings committee will recomend chairs for the FUZZ-IEEE 93 and the World Congress Conferences.

ACTION: Marks will follow up on the Soviet letter and appoint a conference advisor.

MOTION: The NNC will be a cooperating society for the intelligent vehicles workshop if it is not within a month of the Beijing IJCNN. Roy will send the letter.

OLD BUSINESS

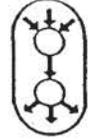
Already Covered

NEW BUSINESS

ExCom will be held in Singapore. Eberhart and Roth will investigate use of video teleconferencing possibilities.

The meeting was adjourned at 12:03 P.M., PDT by
Bob Marks.

TAB 2



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

Previous field of interest:

The field of interest of the Council and its activities and programs shall **consist of aspects of the theory, design, and applications of neural networks that range from software to hardware.** Changes to the field of interest may be made with approvals of the IEEE Technical Activities Board.

MOTION: The field of interest for the Neural Networks Council be changed to:

The field of interest of the Council and its activities and programs shall **be the theory, design, application and development of biologically and linguistically motivated computational paradigms involving neural networks, including connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained.** Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

emphasizing

TAB 3

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

1 SEPTEMBER 1991

PROFESSOR ROBERT J. MARKS, II
DEPARTMENT OF ELECTRICAL ENGINEERING
MS FT-10
UNIVERSITY OF WASHINGTON
SEATTLE, WA 98195

DEAR BOB:

ENCLOSED IS RON GEDNEY'S SUMMARY OF THE NEURAL NETWORKS
COUNCIL REVIEW.

PLEASE REVIEW AND ACKNOWLEDGE OR COMMENT.

THANKS.

YOURS TRULY,



ROBERT A. BEGUN
CC

RON GEDNEY (NO ENCLOSURE)
JIM TIEN
LARRY ANDERSON

July 23, 1991
R. W. Gedney, 857-1054
IBM Corp
Dept. T02
Bldg. 257-4
Endicott, N.Y. 13760
ENDVMTKL/Gedneyrw

MEMO TO: Dr. C. Robinson
SUBJECT: Neural Network Council

Overview:

Overall impression is one of a new, enthusiastic Council trying to cope with fantastic interest in new, vital and growth topic of neural networks. Pages, subscribers, and interest all on the upswing. Main problem is managing growth, particularly conference growth. Have started a Newsletter.

Emerging Technology:

Fuzzy logic. Have some good plans to move into this area.

Competition:

They seem to have a good idea of who their competition is and have a fairly good grasp of its strengths and weaknesses.

Members:

Do not have any concrete information on members (subscribers) needs or wants.

Transactions:

Transactions have been mainly theoretical in nature. Now seeing some shift to applications. They believe this is indicative of the technology moving "out of the laboratory".

General:

Dr. C. Robinson

July 23, 1991

This council seems to be in excellent shape with a bright future. They plan to consider becoming a Society in 2-3 years if growth and interest continue.

R. W. Gedney
Program Manager

RWG:rwg

TAB 4



CREP

IEEE

TECHNICAL ACTIVITIES BOARD

William R. Tackaberry, Chairman
TAB LIAISON COUNCIL

PLEASE REPLY TO:
25 Beech Avenue
Madison, NJ 07940 USA
Tel.: (201) 377-7371

October 24, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Dept. of Electrical Engineering
University of Washington, MS FT-10
Seattle, WA 98195

Dear Prof. Marks:

As you know, TAB's 1991 Operating Plan Goal 4 is:

"Develop effective methods of informing members, industry, government, and the public about technical activities of the IEEE."

A parallel interest is reflected in the 90's Section Congress' Action Item 1:

".....Develop plans for enhancing corporate support of employee involvement in IEEE, emphasizing value of membership to the employer."

We have responded to this assignment by identifying and/or developing the five core PR resources summarized in Attachment I.

Selective use of the material in these "building blocks" can provide the foundation on which to build a personalized presentation. The presenter designs the final message to best meet his or her objectives, with that specific audience, in the time available.

With best personal regards,

A handwritten signature in cursive script, appearing to read "Dr. Jan Brown".

Dr. Jan Brown
Chair - TAB-PR
Resource Task Force

A handwritten signature in cursive script, appearing to read "Tack".

W. R. Tackaberry
Chair-TAB-PR
Ad Hoc Committee

Attachment

ATTACHMENT 1

TAB PR RESOURCES

FOR GROUP AUDIENCES

DESCRIPTION

SOURCE

THE IEEE - THE DIRECTOR'S 32 SLIDE SET. APPROXIMATELY HALF ARE EXTERNALLY ORIENTED.

DIVISION AND
REGION DIRECTORS

THE SOCIETY - INFORMATION VIDEO TAPE BY ELECTROMAGNETIC COMPATABILITY SOCIETY (7 MINUTES 50 SECONDS)

MS. JAYNE CERONE
IEEE-TAB
P. O. BOX 1331
PISCATAWAY, NJ 08855-1331

INSTITUTE/SOCIETY - 18 OVERHEAD COLOR TRANSPARENCIES FOR EXECUTIVE PRESENTATIONS

MS. HELEN HORWITZ
IEEE-PR
345 EAST 47TH STREET
NEW YORK, NY 10017-2394

FOR INDIVIDUAL DISCUSSION

INTRODUCING THE IEEE - POCKET SIZE COLOR BROCHURE

MS. HELEN HORWITZ
IEEE-PR
345 EAST 47TH STREET
NEW YORK, NY 10017-2394

COMPETITIVE OPPORTUNITIES AVAILABLE TO IEEE MEMBERS - EXECUTIVE SUMMARY WORKING PAPER

ATTACHED

COMPETITIVE OPPORTUNITIES

AVAILABLE TO IEEE MEMBERS

GLOBAL NETWORKING

- 360,000 SOCIETY MEMBERS (1/4 OUTSIDE U.S.)
- 280 LOCAL SECTION (1/3 OUTSIDE U.S.)
- 130 MEMBER COUNTRIES
- 37 SPECIALIZED TECHNICAL SOCIETIES
- 300 TECHNICAL CONFERENCES
- 700 ENGINEERING STUDENT BRANCHES

GLOBAL INFORMATION ACCESS

- 22% WORLD'S ELECTRO TECHNICAL LITERATURE PUBLISHED BY IEEE
- 200,000 PAGES ANNUALLY
- 70 SPECIALIZED JOURNALS
- 170 CONFERENCE RECORDS
- 650 PUBLISHED STANDARDS

GLOBAL PROFESSIONALISM

WORLD'S LARGEST TECHNICAL PROFESSIONAL ORGANIZATION WITH LEADING PRACTITIONERS IN THEORY, RESEARCH AND DEVELOPMENT, SYSTEMS AND EQUIPMENT DESIGN, MANUFACTURING, TESTING, APPLICATION, PROJECT AND TECHNICAL MANAGEMENT.

CONTINUING EDUCATION PROGRAMS

ACHIEVEMENT AWARDS PROGRAMS

TAB 5

1991 IEEE Neural Networks Council Document

From marks Tue Oct 22 20:23:19 1991
Received: by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA14237; Tue, 22 Oct 91 20:22:53 -0700
Date: Tue, 22 Oct 91 20:22:53 -0700
From: Robert Marks <marks@u.washington.edu>
Message-Id: <9110230322.AA14237@milton.u.washington.edu>
Sender: marks@milton.u.washington.edu
To: f.smits@ieee.org, kang@uivlsi.csl.uiuc.edu, kim@ee.washington.edu, marks,
soma@ee.washington.edu
Subject: CD RomComCon
Cc: a.burgmeyer@ieee.org, r.geiger@ieee.org, w.tompkins@ieee.org
Status: RO

CD RomComCon

Minutes of Meeting concerning CD ROM recording of IEEE
Conference Records, Monday, October 31, 1991, Seattle
Washington.

Attendees:

Steve Kang, President, IEEE CAS Society
Mani Soma, ISCAS Program Chair
Robert Marks, President, IEEE Neural Networks Council

Charter: Initiate and take action towards CD ROM display of
Conference Proceedings in 1992.

1. Soma contacted Yongmin Kim to attend the meeting to have EMBS representation. Kim is very interested in helping, but could not attend this meeting. Representation looks like CAS, EMBS and NNC.
2. Kang & Marks reported the hallway conversation in Cancun concerning the CD ROM project (with Willis Tompkins, past EMBS President, Friedholf Smits, and Randy Geiger, CAS President Elect). Smits, who is working towards placing the IEEE Transactions & Journals on CD-ROM, agreed in Cancun to be an ex-officio member. A similar project has been launched by EMBS. Some of the ideas expressed below are due to EMBS.
3. Does the project need to be financed outside of the conferences? If so, possible sources include industry grants, the participating Societies/Council and the TAB New Ventures Comm.

RESOLVED:

- (a) Go for plain vanilla CD ROM first. Bells and whistles, such as search, interactive programs and multimedia, may be added later.
- (b) It's a good idea at the first conference to give both the Proceedings hard copy and the CD ROM with a discount coupon. Later conferences can offer an option.
- (c) CAS is aiming at CD ROM'ing its Proceedings in May 92. EMBS apparently has the same goal. So does the NNC. The NNC, due to it's youth, would like to CD ROM all it's

idea?

(e) Soma will ride point on the project.

ACTION ITEMS:

- (A) Soma will query his contacts at Microsoft and Aldus for support, both in talent and money. Both companies have a vested interest in the wide spread use of CD ROM readers.
- (B) Soma will work with Kim to interface with CD ROM reader manufactures, both for support and for discount tickets for purchase. These manufacturers will certainly want booths at the conferences where the CD ROM is introduced.
- (C) Soma will work with Kim to coordinate activities with EMBS, as to not duplicate efforts.
- (D) Both Kang and Soma will make queries concerning CD-ROM manufacture with their contacts.
- (E) Marks will query Smits concerning format standards.
- (F) Marks will talk with Ann Burgmeyer at IEEE Press regarding timing issues for simultaneous conventional press & CD ROM publication.
- (G) Marks will coordinate a conference call in late October. Reports will be given on action items and the next steps assessed. Proposed participants: Kang, Kim, Marks, Smits, Soma.

Submitted for your approval,

Bob Marks
10-23-91

TAB 6

1991 IEEE Neural Networks Council Document

From 70712.3265@compuserve.com by Robert J. Marks II Library Archive 1991
Received: from ihb.compuserve.com by milton.u.washington.edu
(5.65/UW-NDC Revision: 2.1) id AA24494; Thu, 10 Oct 91 12:00:13 -0700
Received: by ihb.compuserve.com (5.65/5.910516)
id AA00076; Thu, 10 Oct 91 15:00:20 -0400
Date: 10 Oct 91 14:49:23 EDT
From: Rick Gilmore <70712.3265@CompuServe.COM>
To: bradley <bradley@ivy.princeton.edu>,
Deb <deb%virginia.bitnet@cunyvm.cuny.edu>,
Etzanako <etzanako@elbereth.rutgers.edu>,
Farhat <farhat@pender.ee.upen.edu>,
JMTien <jmtien%rpitsmts.bitnet@cunyvm.cuny.edu>,
Karplus <karplus@cs.ucla.edu>, kris <kris@boulder.colorado.edu>,
Kuh <kuh@wiliki.eng.hawaii.edu>, les <les@uw-isdl.ee.washington.edu>,
MARKS <marks@milton.u.washington.edu>,
t miller <t_miller@unhh.uhn.edu>, mwr <mwr@aplcomm.jhuapl.edu>,
NAGOYA <d43131a@nucc.nagoya-u.ac.jp>,
newcomb <newcomb@eneevax.eng.umd.edu>,
rcel <rcel%aplvm.bitnet@cunyvm.cuny.edu>, rpl <rpl@sst.11.mit.edu>,
rsn <rsn@a.coe.wvu.wvnet.edu>, sanchez <sanchez@ee.tamu.edu>,
wer <wer@piedmont.mthcsc.wfu.edu>, wes <wes@mrips.bgsm.wfu.edu>,
wes <wes2@milton.u.washington.edu>
Subject: communications
Message-Id: <911010184923_70712.3265_EHD63-1@CompuServe.COM>
Status: RO

TO: Members of IEEE Neural Network Council
FROM: Morgan Downey, Executive Director, International Neural Network Society
RE: Interorganizational communication

Recent communications between the INNS and the IEEE have involved a number of different persons and various messages. It has been determined by INNS that the easiest way to facilitate accurate communications between our two organizations is if the IEEE Neural Networks Council would direct proposals or ideas to this office as they relate to interaction between the two organizations. I will then consult with the INNS leadership and relay a response.

We believe that this arrangement will maximize communications and enhance the dialogue between our respective organizations. In addition, it should relieve our voluntary leaders from time spent in routine communications.

Please feel to reach me via e-mail (70712.3265@compuserve.com), by phone (202) INN-INNS or fax (202) 466-3079. Thank you for your cooperation.

Distribution:

bradley >Internet:bradley@ivy.princeton.edu
Deb >INTERNET:deb%virginia.bitnet@cunyvm.cuny.edu
Etzanako >INTERNET:etzanako@elbereth.rutgers.edu
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Karplus >INTERNET:karplus@cs.ucla.edu
kris >INTERNET:kris@boulder.colorado.edu
Kuh >INTERNET:kuh@wiliki.eng.hawaii.edu
les >INTERNET:les@uw-isdl.ee.washington.edu
MARKS >INTERNET:marks@milton.u.washington.edu
t miller >INTERNET:t_miller@unhh.uhn.edu
mwr >INTERNET:mwr@aplcomm.jhuapl.edu

TAB 7



EEE SERVICE CENTER

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.
445 HOES LANE, P.O. BOX 1331, PISCATAWAY, NJ 08855-1331, USA TEL. (201) 981-0060 TELEX 833233 FAX: (201) 981-0027

MEMORANDUM

TO: Tab Finance Committee, Division Directors,
Society and Council Treasurers & Presidents

FROM: Michael J. Sosa

DATE: 10-23-91

SUBJECT: IEEE SOCIETY/COUNCIL INVESTMENT ASSET ANALYSIS REPORT

Attached please find the Society/Council Investment Analysis Report for the month ended September 30, 1991.

We are enclosing a detail cash balance and net worth report for each Society and Council Treasurer and President.

If you have any questions, please do not hesitate to contact me.

MJS/bp

cc:

T. W. Bartlett
M. Prusan
T. Skrinnikov
T. M. Elliott
I. Engelson
E. Herz
B. Van Der Vort
C. Lof

Mike

H. Strickholm
T. Hissey
B. Wangemann
E. Rosenberg
D. Sethi
F. Aldana, TAB V.P.
H. Goldberg, TAB Treasurer
H. van de Vaart

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IEEE SOCIETY ASSETS ANALYSIS AS OF 09/30/91

10/14/91

	CASH TOTAL	LOAN REC.	A/R MISC.	PREPAID EXPENSES	FIXED ASSETS	LOAN RET.	LONG TERM INVESTMENT	ASSET POSITION	SEPTEMBER OPEN CASH	SEPTEMBER CLOSE CASH	SEPTEMBER AVG. CASH	TREAS. BILL INT.	NOTES
S (085)	581700	76300	180200	0	0	0	2705870	3544070	580100	581700	580900	2546	
TECH DIVISION:													
COMPUTER SYSTEMS (004)	595860	131400	40300	0	2200	0	202900	972660	654760	595860	625310	2741	ASSET POSIT
HYBRIDS, & MANUFACTURING TECHNOLOGY (021)	43130	42800	69600	0	0	0	0	155330	85130	43130	64130	281	MONTH'S CLO
TECHNICAL SERVICES (015)	423540	239400	113800	0	2500	0	736050	1515290	517040	423540	470290	2061	LOANS, A/R.
ELECTRO-OPTICS (036)	271580	0	114400	0	0	138200	307010	831190	454080	271580	362830	1590	
CIRCUITS (037)	428790	192300	15500	0	5800	0	333770	976160	527890	428790	478340	2097	NEGATIVE CH WILL BE ASE PRIME PLUS
TECH DIVISION:													
TECHNOLOGY (002)	204460	4000	0	0	0	0	0	208480	204460	204460	204480	896	
ELECTRONICS (008)	243240	40000	100	0	0	0	33320	316660	241340	243240	242290	1062	TOTAL CASH
COMMUNICATIONS (019)	1754320	221800	31400	14000	8600	184300	133470	2347890	1928820	1754320	1841570	8072	ON AVERAGE
TECHNOLOGY (006)	224820	22300	5400	1200	0	92100	33320	379140	182120	224820	203470	892	MONTH.
TECH DIVISION:													
TECHNOLOGY (016)	219560	0	42500	0	0	0	0	262060	812460	219560	516010	2262	THE "ACTUAL RATE USED I CALCULATION.
PHYSICS & RADIATION DIVISION:													
PROPAGATION (003)	358130	51200	43800	0	0	0	266960	720090	351030	358130	354580	1554	
EM ELECTRIC COMPATIBILITY (027)	131280	22100	5300	0	1700	0	200280	360660	133680	131280	132480	581	
PLASMA (033)	689210	33600	2800	0	0	0	200280	925890	700510	689210	694860	3046	
THEORY & TECHNIQUES (017)	455290	91500	50800	0	7000	138200	440840	1183630	538090	455290	496690	2177	
PLASMA SCIENCES (005)	773280	129500	25800	0	3000	0	135290	1076870	731180	773280	752230	3297	
HUMAN ENVIRONMENT DIVISION:													
ENVIRONMENTAL (025)	(1160)	4500	3500	0	0	0	28970	35810	6540	(1160)	2690	12	
ENVIRONMENTAL MANAGEMENT (014)	165370	31800	100	2800	0	46600	60070	306740	190470	165370	177920	780	
ENVIRONMENTAL COMMUNICATION (026)	43220	9500	8000	900	0	0	90990	151710	49820	43220	46520	204	
ENVIRONMENTAL (007)	(66890)	22500	0	1800	0	0	113470	70880	(54990)	(66890)	(60940)	0	
ENVIRONMENTAL APPLICATIONS OF TECHNOLOGY (030)	38790	2500	0	0	0	0	0	41290	39990	38790	39390	173	
APPLICATIONS DIVISION:													
MECHANICAL AND ELECTRICAL INSULATION (032)	26260	14100	19400	0	16100	46100	66790	188750	60460	26260	43360	190	
APPLICATIONS (034)	544750	88000	47700	0	1700	92100	123420	897670	536150	544750	540450	2369	
MEASUREMENT & MEASUREMENT (009)	80020	55000	5600	0	1700	46100	230960	419390	102130	80030	91080	399	
TELECOMMUNICATIONS (035)	204640	113400	20700	0	1700	0	0	340440	208340	204640	206490	905	
POWER ENGINEERING DIVISION:													
POWER ENGINEERING (031)	789230	65700	137900	0	0	460700	1003610	2457140	909430	789230	849330	3723	
APPLICATIONS DIVISION:													
TELECOMMUNICATIONS (001)	515170	53800	26600	0	3500	0	200280	799350	538470	515170	526820	2309	
TELECOMMUNICATIONS & ELECTRONIC SYSTEMS (010)	(115560)	14300	11000	0	0	0	309770	219510	(64160)	(115560)	(89860)	0	
TELECOMMUNICATIONS & REMOTE SENSING (029)	156590	37200	20700	1100	200	0	0	215700	186400	156590	171450	752	
TELECOMMUNICATIONS ENGINEERING (022)	167140	125100	48400	0	0	0	0	340640	116540	167140	141840	622	
TELECOMMUNICATIONS, FERROELECTRICS, & FREQUENCY CONTROL (20)	282570	51000	25900	0	0	92100	0	451570	324770	282570	303670	1331	
CONTROL DIVISION:													
CONTROL SYSTEMS (023)	517190	51000	13600	0	0	46100	534910	1162800	571390	517190	544290	2386	
CONTROL SYSTEMS IN MEDICINE & BIOLOGY (018)	64760	155300	36400	0	5400	0	504290	766350	94860	64760	79810	350	
ELECTRONICS (013)	191020	22200	2200	0	0	0	0	215430	209130	191030	200080	877	
CONTROL THEORY (012)	185880	56500	20200	1700	2700	0	316580	563560	203480	185880	194680	853	
CONTROL THEORY, & CYBERNETICS (028)	168870	46000	4300	0	0	184300	200280	603750	180070	168870	174470	765	
CONTROL THEORY & AUTOMATION (024)	493440	2200	63000	0	4800	0	0	563440	503840	493440	498640	2186	
CONTROL THEORY & NETWORKS (011)	166250	104100	1300	0	0	0	0	271650	165450	166250	175850	771	
TOTAL	12015690	2414100	1258200	23500	69600	1566900	9512850	26859840	13741290	12015690	12878450	57112	
RATE 5.26% EFFECTIVE RATE 5.39%													

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NET (011)
AND NET WORTH POSITION
PERIOD JANUARY 1, 1991 THROUGH SEPTEMBER 30, 1991
(S)

NET WORTH JAN.1	PLUS CUMULATIVE REPORTED PROFIT & (LOSS)	LESS CUMULATIVE INTER OFFICE TRANSFERS	MONTH END NET WORTH	PLUS ACCOUNTS PAYABLE	PLUS DEFERRED INCOME	LESS ACCOUNTS RECEIVABLE	LESS LOANS RECEIVABLE	LESS PREPAID EXPENSES	LESS FIXED ASSETS	LESS LOAN RETIREMENT	LESS LONG-TERM INVESTMENTS	MONTH END CASH BALANCE
255.45	153.20	.00	408.65	.00	.000	.30	25.70	.00	.00	100.00	.00	282.65
	124.40	.00	379.85	.00	.000	.00	24.70	.00	.00	100.00	.00	255.15
	129.80	.00	385.25	.00	.000	.00	54.30	.00	.00	.00	.00	330.95
	116.30	.00	371.75	.00	.000	3.90	104.30	.00	.00	.00	.00	263.55
	95.00	.00	350.45	.00	.000	5.30	107.10	.00	.00	.00	.00	238.05
	70.30	.00	325.75	.00	.000	2.10	108.80	.00	.00	.00	.00	214.85
	60.30	.00	315.75	.00	.000	1.20	112.10	.00	.00	.00	.00	202.45
	40.80	.00	298.25	.00	.000	1.30	109.50	.00	.00	.00	.00	185.45
	16.20	.00	271.65	.00	.000	1.30	104.10	.00	.00	.00	.00	166.25

NETWORKS (011)
ASSETS ANALYSIS
REPORT
(S)

OPENING CASH	CLOSING CASH	AVERAGE CASH	T-BILL RATE (%)	NET ASSET VALUE PER SHARE (ACTUAL)	NUMBER OF SHARES (ACTUAL)	LONG TERM INVESTMENT VALUE
143.27	282.65	212.96	6.28	13.36	.000	.00
282.65	255.15	268.90	6.06	13.70	.000	.00
355.15	330.95	343.05	6.04	13.62	.000	.00
330.95	263.55	297.25	5.80	13.36	.000	.00
263.55	238.05	250.80	5.29	13.57	.000	.00
238.05	214.85	226.45	5.38	13.24	.000	.00
214.85	202.45	208.65	5.45	13.45	.000	.00
202.45	185.45	193.95	5.53	13.79	.000	.00
185.45	166.25	175.85	5.26	13.79	.000	.00

INVESTMENT HISTORY:

TAB 8

REDUCTION OF APP ALLOCATION TO S/Cs
 ASSUMING \$250K TO GIVEBACK

S/C		PUBL	TOTAL \$ GVEK	TOTAL S/C	
SP-01	*	T-SP	6334	9623	
	*	M-SP	1409		
		T-IP	1880		
BT-02	*	T-BC	1257	1267	
AP-03	*	T-AP	5032	6579	
	*	M-AP	1547		
CAS-04		T-CAS1	2998	11830	
		T-CAS2	2762		
	*	T-CAD	4373		
	*	T-CSVT	1697		
NPS-05	*	T-NS	3509	6812	
	*	T-PS	3303		
VT-06	*	T-VT	2128	2128	
R-07	*	T-R	3157	3157	
CE-08	*	T-CE	3021	3021	
IM-09	*	T-IM	3878	3878	
AES-10	*	T-AES	3585	5049	
	*	M-AES	1464		
NN-11	*	T-NN	2004	2004	
IT-12	*	T-IT	4961	4961	
IE-13	*	T-IE	3065	3065	
EM-14	*	T-EM	2548	4067	
	*	M-EM	1519		
ED-15	*	T-ED	6250	9082	
	*	L-ED	2832		
C-16	*	T-C	6281	46761	
	*	M-C	6218		
	*	T-SE	5743		
	*	T-PAMI	4576		
	*	T-KDE	2517		
	*	T-PDS	2543		
	*	M-G&A	4170		
	*	M-MICR	3443		
	*	M-D&T	2320		
	*	M-SOFT	3893		
	*	M-EXP	3489		
	*	M-AHC	1568		
MTT-17	*	T-MTT	5631		7827
	*	L-MGW	2196		
EMB-18	*	T-BME	4331	5971	
	*	M-EMB	1640		
COM-19	*	T-COM	3868	17831	
	*	M-COM	3199		
	*	J-SAC	4338		
	*	M-NET	2880		
	*	M-LTS	1546		
UFFC-20	*	T-UFFC	3090	3090	
CHMT-21	*	T-CHMT	3829	3829	
OE-22	*	J-OE	2189	2189	
CS-23	*	T-AC	5454	8013	
	*	M-CS	2559		
DA-24	*	T-DA	2050	2050	

\$ 250,000

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REDUCTION OF APP ALLOCATION TO S/Cs
 ASSUMING \$250K TO GIVEBACK

S/C		PUBL	TOTAL \$ GIVEK	TOTAL S/C
EMC-27	*	T-EMC	2484	2484
SMC-28	*	T-SMC	4041	4041
GRS-29	*	T-GRS	3301	3301
SIT-30	*	M-TSS	1357	1357
PE-31	*	M-PER	2303	13576
	*	T-EC	2513	
	*	T-PWRS	3360	
	*	T-PWRD	3711	
	*	M-CAP	1484	
DEI-32	*	T-DEI	3318	5136
	*	M-DEI	1838	
MAG-33	*	T-MAG	5171	5171
IA-34	*	T-IA	4504	4504
PEL-35	*	T-PE	2701	2701
LEC-36	*	S-QE	5755	9032
	*	L-RT	3277	
SSC-37	*	S-SSC	3333	3333
MI-916	*	T-MI	2353	2353
LEI-919	*	S-LEI	4763	4763
DIYI-921	*	M-C&D	2235	2235
CSM-923	*	T-SM	1904	1904
ASC-925	*	T-ASC	1362	1362
MEMS-926	*	T-MEMS	1534	1534
TOTAL			250000	250000

TAB 9

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

REPORT ON AUDIT OF STATEMENT OF REVENUE
AND EXPENSES AND ALLOCATION OF NET PROCEEDS

FOR THE 1990 INTERNATIONAL JOINT
CONFERENCE ON NEURAL NETWORKS
JUNE 17 THROUGH 21, 1990

THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS, INC.

TABLE OF CONTENTS

	Page
INDEPENDENT ACCOUNTANT'S REPORT	1
FINANCIAL STATEMENTS	
Statement of Revenue and Expenses	2
Allocation of Net Proceeds	3
Notes to the Statement of Revenue and Expenses and Allocation of Net Proceeds	4



JASSOY, GRAFF & DOUGLAS
CERTIFIED PUBLIC ACCOUNTANTS

PARTNERS

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INDEPENDENT ACCOUNTANT'S REPORT

To the Committee of
The Institute of Electrical and Electronics Engineers, Inc.
1990 International Joint Conference on Neural Networks
San Diego, California

We have audited the accompanying statement of revenue and expenses and allocation of net proceeds, on a cash basis, for the 1990 International Joint Conference on Neural Networks held on June 17 through 21, 1990. These financial statements are the responsibility of the Conference's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

As described in Note 1, the accompanying statement of revenue and expenses and allocation of net proceeds have been prepared on a cash basis; thus, revenue is recognized when received, rather than when earned, and expenses are recognized when paid, rather than when the obligations are incurred. Accordingly, the statement of revenue and expenses and allocation of net proceeds are not intended to present the results of operations in conformity with generally accepted accounting principles.

In our opinion, the financial statements referred to above present fairly, in all material respects, the revenue and expenses and allocation of net proceeds for the 1990 International Joint Conference on Neural Networks covering the period of June 17 through 21, 1990, on the basis of accounting described in Note 1.

The Institute of Electrical and Electronics Engineers, Inc.
STATEMENT OF REVENUE AND EXPENSES - CASH BASIS
For the 1990 International
Joint Conference on Neural Networks
Held June 17 through 21, 1990

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
REVENUE			
Registration	\$ 265,153		\$ 265,153
Tutorials		\$ 123,485	123,485
Exhibits	38,997		38,997
Proceedings	27,149		27,149
Hotel room commission	37,428		37,428
Other revenue, including interest of \$3,569	<u>21,363</u>	<u>1,785</u>	<u>23,148</u>
Total revenue	<u>390,090</u>	<u>125,270</u>	<u>515,360</u>
EXPENSES			
Marketing	29,965	29,965	59,930
Administration	62,810		62,810
Exhibits	11,776		11,776
Proceedings	80,880		80,880
Hospitality	58,336		58,336
Meeting	34,025		34,025
Tutorials		64,366	64,366
Speakers		25,508	25,508
Miscellaneous	<u>15,274</u>	<u> </u>	<u>15,274</u>
Total expenses	<u>293,066</u>	<u>119,839</u>	<u>412,905</u>
Net proceeds	\$ <u>97,024</u>	\$ <u>5,431</u>	\$ <u>102,455</u>

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The Institute of Electrical and Electronics Engineers, Inc.
ALLOCATION OF NET PROCEEDS - CASH BASIS
For the 1990 International
Joint Conference on Neural Networks
Held June 17 through 21, 1990

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Net proceeds available for allocation (see Note 3)	\$ 97,024	\$ 5,431	\$ <u>102,455</u>
Allocation			
IEEE Neural Networks Council			51,228
International Neural Network Society			<u>51,227</u>
			\$ <u>102,455</u>

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 The Institute of Electrical and Electronics Engineers, Inc.
**NOTES TO STATEMENT OF REVENUE AND EXPENSES
 AND ALLOCATION OF NET PROCEEDS**
 For the 1990 International
 Joint Conference on Neural Networks

NOTE 1--ORGANIZATION AND BASIS OF PRESENTATION

The Institute of Electrical and Electronics Engineers Neural Networks Council (the I.E.E.E.) held the 1990 International Joint Conference on Neural Networks from June 17 through 21, 1990. The statement of revenue and expenses and allocation of net proceeds for that conference have been prepared on the cash basis of accounting and not on an accrual basis, as would be required by generally accepted accounting principles. In order for the statements to be in accordance with generally accepted accounting principles, revenues would be recognized when earned, rather than when received, and expenses would be recognized when incurred, rather than when paid (see Note 3).

NOTE 2--INCOME TAX

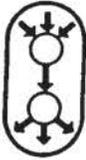
No income tax has been provided on the net proceeds since this was an activity of the I.E.E.E. and the outcome will be incorporated into their operating results at year-end.

NOTE 3--CONTINGENCIES (UNAUDITED)

Below is a summary of the unaudited receivables and payable outstanding at August 31, 1990. Had these assets and liabilities been reflected as revenue and expenses in the accompanying statement of revenue and expenses, the net proceeds from the conference and tutorials section and allocation of net proceeds would have been as follows:

	<u>Conference</u>	<u>Tutorial</u>	<u>Total</u>
Net proceeds - cash basis	\$ 97,024	\$ 5,431	\$ 102,455
Receivables			
Conference registration fees	2,319		2,319
Estimated revenue from sale of proceeding brochures	<u>50,000</u>		<u>50,000</u>
Total receivables	<u>52,319</u>		<u>52,319</u>
Payables			
Speaker expense	3,425		3,425
Volunteer committee	2,500		2,500
Contingency	15,000		15,000
Audit fees	<u>4,000</u>	<u>1,000</u>	<u>5,000</u>
Total payables	<u>24,925</u>	<u>1,000</u>	<u>25,925</u>
Net proceeds	\$ <u>124,418</u>	\$ <u>4,431</u>	\$ <u>128,849</u>
Allocation of net proceeds			
IEEE Neural Networks Council			\$ 64,425
International Neural Network Society			<u>64,424</u>

TAB 10

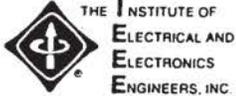


1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
IJCNN'91 - SINGAPORE

International Joint Conference on Neural Networks.

WESTIN STAMFORD & WESTIN PLAZA - SINGAPORE

NOVEMBER 18-21 1991



INNS
INTERNATIONAL
NEURAL NETWORK
SOCIETY

Please reply to:

IJCNN '91 SINGAPORE
Communication International Associates Pte Ltd
44/46 Tanjong Pagar Road
Singapore 0208.
Tel: (65) 2262838 Fax: (65) 2262877

11/9/91

Marks, Robert J
UNIVERSITY OF WASHINGTON
USA

Dear Colleague

RE: IJCNN'91

On the basis of your recommendations, we have now put together the Advance Technical Program of IJCNN'91. We would like to thank you for your assistance and cooperation in making this possible.

We have received a total of 543 submitted papers. Out of which 448 papers are accepted. These included 134 for Poster and the balance for Oral presentation. In addition the Conference program will also include a total of 8 tutorials will be held in parallel on 18th November 1991. From the 19-21st a common plenary Session each morning has been planned. The distinguished speakers include : Prof T Kohonen, Helsinki University of Technology, Finland; Prof N Nihsikawa, Kyoto University, Japan; Prof H Suz, US Navy Weapon Research Centre, USA.

We were heartened by the support shown worldwide toward IJCNN'91 and impressed by the diversity and quality of the papers submitted. Therefore, we are contain of a very successful symposium with a record number of attendees.

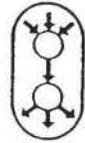
Thank you again for helping out as a member of the Technical Program Committee. In appreciation we would like to extend our early concessionary rate to 1st October 1991 for your participation at IJCNN'91.

We thank you for your contribution and we sincerely hope that we will meet in Singapore at IJCNN'91.

Yours sincerely

Robert J. Marks II Library Archive
Robert J. Marks II

TAB 11



NEURAL NETWORKS COUNCIL

Patrick K. Simpson
Treasurer

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

August 30, 1991

Mary Ann DeWald
IEEE Conference Services
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

Dear Ms. DeWald:

The approval of the attached modification to the budget of the 1992 International Joint Conference on Neural Networks, being held in Baltimore, MD June 7-11, 1992 (see attached letter).

I hereby approve the modification of this budget.

If you have any questions or comments, please do not hesitate to contact me.

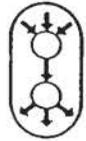
Sincerely,

A handwritten signature in black ink, appearing to be 'P. Simpson', with a long horizontal line extending to the right.

Patrick K. Simpson

Attachments: Letter from R.J. Marks II (delegation of authority)
Letter and Revised Budget from C. Lau, IJCNN 92 General Chair

CC: Clifford Lau, ONR, IJCNN 92 General Chair
Patrick Shoemaker, NOSC, IJCNN 92 Finance Chair
R.J. Marks II, IEEE NNC President ←
R.C. Eberhart, IEEE NNC President-Elect
Paul Werbos, NSF, INNS President
Harold Szu, NSWC, INNS Treasurer
Morgan Downey, INNS Executive Director



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

August 20, 1991

Patrick K. Simpson, Treasurer
IEEE Neural Networks Council
17436 Ashburton Road
San Diego, Ca 92128

Dear Pat:

I delegate the authority to you to approve the attached revised budget. If approved, please forward to Mary Ann DeWald at IEEE Conference Services.

Sincerely,

A handwritten signature in cursive that reads "Bob Marks" with a small flourish at the end.

Robert J. Marks II, President
Neural Networks Council

Enclosure

c: R. Eberhart, NNC VP-elect
R. S. Nutter, NNC Treasurer-elect

August 6, 1991

Prof. Robert J. Marks
President, IEEE NNC
Dept. of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dr. Paul Werbos
President of INNS
Div. of Electrical and Communication Systems
National Science Foundation, Room 1151
Washington, D. C. 20550

Gentlemen:

Enclosed for your consideration is a revised IJCNN'92 budget to reflect the guidance given to me by the IEEE and INNS during July. The changes include a line item (\$5,000) for the volunteers committee and a much lower Proceedings sales due to the fact that students will be given a copy. But I neglect to raise the cost of printing the Proceedings when all papers are printed including the posters.

With this budget, we will be barely breaking even with 1,200 attendance. Since the purpose of the Conference is to encourage communication and education in neural networks, and not to make a profit, I think the budget is workable although we may have to be very frugal on the dinner and reception.

Since these are minor changes in terms of the policy guidance from IEEE and INNS, I presume this revised budget would be approved as submitted, unless told otherwise.

Sincerely yours,



Clifford Lau
IJCNN'92 Baltimore
General Chair

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IJCNN'92 Baltimore Preliminary Incomes

	A	B	C	D	E	F	G
1				MemberNon-member	Student		
2	Before April 20, 1992		\$245	\$285	\$75		
3	After April 20, 1992		\$295	\$335	\$90		
4	One day		\$100	\$120			
5	Tutorials -one	\$125					
6	-two	\$235					
7	- three	\$330					
8	Exhjbitors (per booth)	\$950					
9	Publisher (per booth)	\$650					
10	Proceeding sales	\$80					
11							
12	Estimated attendees		1,200	1,400	1,600	1,800	2,000
13							
14	Early - member (25%)		\$73,500	\$85,750	\$98,000	\$110,250	\$122,500
15	Early - nonmember (10%)		\$34,200	\$39,900	\$45,600	\$51,300	\$57,000
16	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
17	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
18	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
19	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
20							
21	Registration income		\$296,400	\$345,800	\$395,200	\$444,600	\$494,000
22							
23	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
24							
25	Tutorial Income - ave 2 ea	35% atter	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
26							
27	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
28							
29	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
30							
31	Proceeding sales	500 cps	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
32							
33	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
34							
35							
36	Total income		\$488,400	\$555,050	\$621,700	\$688,350	\$755,000

IJCNN'92 Baltimore Preliminary Expenses Budget

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
48	Volunteers Committee		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
49	Total Committee/tutorial		\$77,000	\$77,000	\$77,000	\$77,000	\$77,000

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 IJCNN'92 Baltimore Preliminary Budget

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$488,400	\$555,050	\$621,700	\$688,350	\$755,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$538,400	\$605,050	\$671,700	\$738,350	\$805,000
7						
8	Conf. Expenses	\$487,700	\$514,700	\$543,900	\$575,300	\$606,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$537,700	\$564,700	\$593,900	\$625,300	\$656,700
12						
13	Net (income - expenses)	\$700	\$40,350	\$77,800	\$113,050	\$148,300

TAB 12

Wesley E. Snyder

September 3, 1991

Dear Bob,

Enclosed is the budget which Witali and I worked out. Here is an explanation of items:

The estimates are for 100 foreign visitors.

1) Moscow and Rostov guidance: These are people who are available 24 hrs a day, who speak English, and who will take visitors from the international airport to their plane at the domestic airport. It will be handled by the International Dept. at Witali's Univ. Similarly in Rostov, there will be 2 people at the airport, 2 in the hotel.

I think we need this. After all, we don't speak Russian, and the signs and customs are likely to be quite foreign. It's NOT like visiting Western Europe.

2) Boat rental is for a tour/party boat on the Don river. Witali has done one of these before. It is sufficiently quite to hold sessions. We haven't worked final details yet.

3) I suggest we make hotel packages available at the indicated prices. Recommend the more expensive rooms. Package includes Breakfast at hotel, Lunch at conference, Supper at hotel.

4) I suggest we print all 300 copies of the proceedings (at est. \$25 each), and ship them to the conf site. Then get reimbursed

by the 200 Russians,

Wes

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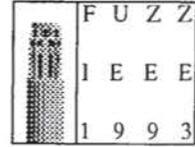
Expenses		Income		
Moscow Guidance	1000	100 registrations	175	17500
Convention center	300	75 lodging package 1	440	33000
Buses, hotel to conf center	800	15 package 2	320	4800
Boat rental	500	10 total income	280	2800
AV		Russian proceedings s:	200	5000
overheads	120			
slide proj	120	total income		63100
VCR	80	Total costs		58058
Rostov guidance	288	Estimated surplus		5042
Hotel deposit	200			
Printing of proceedings	2500	Lodging package 1		440
Shipping of proceedins	800	Lodging package 2		320
Coffee	400	Lodging package 3		280
Mailing	250			
Other communication	600			
Committee expenses:				
Travel	9000			
Dinner	500			
total direct costs	17458			
Lodging				
Hotel				
75 rooms at 95	28500			
15 rooms at 65	3900			
10 rooms at 55	2200			
Meals	6000			
total lodging costs	40600			

TAB 13

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive



SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
SAN FRANCISCO, CALIFORNIA, MARCH 28 - APRIL 1, 1993



Dr. Enrique H. Ruspini
General Chairman

PLEASE REPLY TO:
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025
Tel.: [415] 859-2314
Fax: [415] 859-3735
E. Mail: ruspini@ai.sri.com

October 29, 1991

Prof. Robert J. Marks II
President, IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle WA 98295

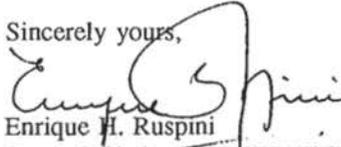
Dear Bob,

I am enclosing herewith, for your examination and approval, the preliminary budget and other IEEE required documentation for the Second International Conference on Fuzzy Systems, planned to take place in San Francisco, California, from March 28 to April 1, 1993.

Although these documentation has not yet been formally submitted to the IEEE Technical Services Office, pending completion of certain documentation requirements (mandated by California banking laws) by that office, it is expected that such formalities will be completed within the next few days.

I am aware that you intend to present this information at the next scheduled meeting of the Executive Committee of the IEEE Neural Networks Council. Should you have any questions regarding these matters, please feel free to contact me at my office or, from November 8 to November 20, 1991, at the Hyatt Century Hotel, Tokyo, Japan.

Sincerely yours,


Enrique H. Ruspini
General Chairman, FUZZ-IEEE'93

Encl.: Copies of IEEE Conference Forms, Attachments



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS

2. Dates of Conference MARCH 28 - APRIL 1, 1993

3. Location of Conference (full name and address) HYATT REGENCY SAN FRANCISCO, FIVE EMBARCADERO LENTEL, SAN FRANCISCO, CA 94111

4. Estimated Attendance 720

5. Exhibits Yes No

6. Will there be a Conference publication? Yes No If yes, check one box below.
 Conference Record Other (explain) _____

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE NEURAL NETWORKS COUNCIL</u>	%	<u>100</u>
Entity	_____	%	_____
Entity	_____	%	_____
Entity	_____	%	_____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>

PLEASE SEE ATTACHED LIST

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
 If yes, who was contacted? LETTER SENT TO ROBERT PENN, CHAIRMAN, S.F. BAY AREA COUNCIL

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025

INFORMATION CONTACT NOMI FELDMAN Tel. No. (619) 453-6222
 Address MEETING MANAGEMENT, 5665 OBERLIN DRIVE, SUITE 110, SAN DIEGO, CA 92121

COMMITTEE MEMBERS
 If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:
 Name ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE Enrique Ruspin Date 10-28-91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 Dates of Conference MARCH 28 - APRIL 1, 1993

INCOME

REGISTRATION FEES	Quantity	Fee	Budget	Interim Report	Final Report
In Advance - Members	_____ x _____ =	\$ _____	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x _____ =	_____	_____	_____	_____
In Advance - Reduced Rate	_____ x _____ =	_____	_____	_____	_____
At Conference - Members	_____ x _____ =	_____	_____	_____	_____
At Conference - Nonmembers	_____ x _____ =	_____	_____	_____	_____
At Conference - Reduced Rate	_____ x _____ =	_____	_____	_____	_____
Total Registrants		Total	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

CONFERENCE PUBLICATION SALES	Quantity	Fee	Budget	Interim Report	Final Report
To Members	_____ x _____ =	\$ _____	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x _____ =	_____	_____	_____	_____
To IEEE Hq.	_____ x _____ =	_____	_____	_____	_____
Total Copies		Total	\$ _____	\$ _____	\$ _____

EXHIBITS	Quantity	Fee	Budget	Interim Report	Final Report
Tables	_____ x _____ =	\$ _____	\$ _____	\$ _____	\$ _____
Booths	_____ x _____ =	_____	_____	_____	_____
Booths	_____ x _____ =	_____	_____	_____	_____
	_____ x _____ =	_____	_____	_____	_____
Total		Total	\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS	Total	Budget	Interim Report	Final Report
(Itemize by event on separate sheets.)		\$ _____	\$ _____	\$ _____

ALL OTHER (List here or attach details.)	Total	Budget	Interim Report	Final Report
_____		\$ _____	\$ _____	\$ _____
_____		_____	_____	_____
_____		_____	_____	_____
Total		\$ _____	\$ _____	\$ _____
TOTAL INCOME		\$ _____	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS Dates of Conference MARCH 28 - APRIL 1, 1993

PROMOTION	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
<i>(SEE ATTACHED ITEMIZATION)</i>			
CONFERENCE PUBLICATION			
Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)			
Total	\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)			
Total	\$ _____	\$ _____	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ _____	\$ _____	\$ _____

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: U.S. DOLLARS

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars – at the current conversion rate – when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name ENRIQUE A. RUSPINI Tel. No. 415 859-2314
 Address SRI INTERNATIONAL, 333 RAVENWOOD AVE., MENLO PARK, CA 94035
 Conference Position GENERAL CHAIRMAN

SIGNATURE [Signature] Date 10-28-91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

IEEE TECHNICAL ACTIVITIES

SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 2. Dates of Conference MARCH 28 - APRIL 1, 1993
 3. Location of Conference (full name and address) HYATT REGENCY HOTEL, FIVE EMBARCADERO CENTER, SAN FRANCISCO, CA 94111

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.
 Local currency: U.S. \$ Conversion rate: _____ Date of conversion rate: _____

INCOME

	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	\$ _____	\$ _____	\$ _____
13. Total Receipts	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

EXPENSE

	Budget	Interim Report	Final Report
Promotion	\$ _____	\$ _____	\$ _____
1b. Conference Publications	_____	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	\$ _____	\$ _____	\$ _____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ _____ 24. Total Outlays (22) \$ _____
 25. Surplus (Loss) - (Item 23 less Item 24) \$ _____

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

Cosponsor Entity	% Share	\$ Distributed
a. <u>IEEE NEURAL NETWORKS COUNCIL</u>	<u>100</u>	_____
b. _____	_____	_____
c. _____	_____	_____
d. _____	_____	_____
Surplus (Loss) \$		_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank _____
 Address _____
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE [Signature] Date 10-28-91



1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
IEEE TECHNICAL ACTIVITIES

**IEEE CONFERENCE SERVICES DEPARTMENT
 CONFERENCE PUBLICATION FORM.**

See reverse side for instructions on how to complete this form.

PLEASE NOTE: THIS INFORMATION IS REQUIRED IN ORDER TO INCLUDE THIS CONFERENCE RECORD IN THE IEEE BOOK BROKER PROGRAM FOR POST CONFERENCE SALES.

Parts A and B should be completed by the Conference Publications Chairman and returned no later than six (6) months prior to the conference to:

**IEEE CONFERENCE SERVICES, 445 HOES LANE, PISCATAWAY, NJ 08854
 PHONE: (908) 562-3878 FAX: (908) 562-1571**

Please allow 4 weeks to obtain appropriate catalog & identification numbers from IEEE Headquarters.

Part A CONFERENCE PUBLICATION INFORMATION

1. Full Title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
2. Dates of Conference MARCH 28-APRIL 1, 1993
3. Location of Conference (full name & address) HYATT REGENCY, FIVE EMBARCADEO CENTER, SAN FRANCISCO, CA
4. Financial Sponsors IEEE NEURAL NETWORKS COUNCIL
5. Non-financial IEEE Entities COMMUNICATIONS SOC., INDUST. ELECT. SOC., LASER & ELECTROOPT. SOC.
6. Full Name of Publication as it Will Appear on Title Page SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS, SAN FRANCISCO, CA 1991
7. Scheduled Date of Publication 3/91
8. Est. Shipping Date to IEEE 3/91
9. Est. Pages 1300
10. Paper size 8.5 x 11
11. Volumes 2
12. Copyright: IEEE Other _____
13. Name & Address of Other Entity Holding Copyright N/A

Part B PRODUCTION/PRINTING/PAYMENT INFORMATION

1. Name & Address of Printer TBD
2. Tele. No. (area code) _____
3. Contact Person _____
4. Estimated Print Run: A _____ + B _____ = C _____
 (A) Conference Registration + (B) Book Broker Purchase = (C) Total
5. IEEE PAYMENT FOR CONFERENCE PUBLICATION SHOULD BE SENT TO:
 Name _____
 Address _____
6. Publication Chairman _____
7. Address _____
8. Tele. No. (area code) _____
 FAX No. (area code) _____
9. Date _____
10. Signature _____

Part C TO BE COMPLETED BY IEEE - DO NOT COMPLETE - INTEROFFICE USE ONLY

1. LC Cat. No. _____
2. IEEE Cat. No. _____
3. ISBN (soft) _____ (case) _____ (fiche) _____
4. ISSN _____
5. Copies Ordered _____
6. Copies Rec'd _____

Please keep a copy for your records



IEEE

REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
Conference Dates MARCH 28 - APRIL 1, 1993
Conference Hotel or Center HYATT REGENCY, FIVE EMBARCADERO CENTER
Conference Location (City, State & Zip Code) SAN FRANCISCO, CA 94111
CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)
If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)
If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000
A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)
Note: There will be an approximate \$100 charge billed directly to the conference.

CONFERENCE WILL CHARTER: Bus Other (explain) N/A
See special note regarding transportation rental.

CERTIFICATE OF INSURANCE
You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.

Name ENRIQUE H. RUSPINI
Conference Title GENERAL CHAIRMAN
Address ARTIFICIAL INTELLIGENCE CENTER

SRI INTERNATIONAL
333 RAVENSWOOD AVE., MENLO PARK, CA 94025

Phone No. (415) 959-2314
Signature Enrique Ruspin
Date 10-28-91

FOR OFFICIAL USE ONLY			
CONF DATE	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Mo.	Date	Yr.
Date Rec'd	_____		
Date Ack	_____		
Off&Ctm List	_____		
Charter Cert	_____		
<input type="checkbox"/> IN & OUT ROBBERY	_____		
- A&A Inv. Req.	_____		
- Inv. to Conf.	_____		
- Check to A&A	_____		
<input type="checkbox"/> INSURANCE CLAIM	_____		
<input type="checkbox"/> FILE COMPLETE	_____		

(PLEASE MAKE A PHOTOCOPY AND RETAIN FOR YOUR RECORDS)

IEEE Financial Report

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

March 28-April 1, 1993

Hyatt Regency Hotel , Five Embarcadero Center, San Francisco, California

Part I: INCOME

	Qty.	Fee	Budget	Int Rept	Final Rept
<u>REGISTRATION FEES</u>					
MEMBERS					
Registered before 11/2/92	120	\$295.00	\$35,400.00		
Registered before 1/4/93	120	\$345.00	\$41,400.00		
Registered at Conference	240	\$395.00	\$94,800.00		
NONMEMBERS					
Registered before 11/2/92	60	\$395.00	\$23,700.00		
Registered before 1/4/93	30	\$445.00	\$13,350.00		
Registered at Conference	30	\$495.00	\$14,850.00		
STUDENTS					
Registered before 11/2/92	30	\$75.00	\$2,250.00		
Registered before 1/4/93	30	\$85.00	\$2,550.00		
Registered at Conference	60	\$95.00	\$5,700.00		
TOTAL REGISTRATION	720	Total	\$234,000.00		
<u>CONFERENCE SALES</u>					
To members	30	\$50.00	\$1,500.00		
To non-members	30	\$75.00	\$2,250.00		
To IEEE Headquarters	450	\$30.00	\$13,500.00		
TOTAL CONF. SALES	510	Total	\$17,250.00		
<u>EXHIBITS</u>					
Booths/Publishers	5	\$750.00	\$3,750.00		
Booths/All others	30	\$1,095.00	\$32,850.00		
		Total	\$36,600.00		
<u>SOCIAL FUNCTIONS</u>					
Optional Tours (1)					
TOTAL SOCIAL FUNCTIONS			\$0.00		
<u>ALL OTHER</u>					
Tutorial, one only	70	\$225.00	\$15,750.00		
Tutorial	240	\$325.00	\$78,000.00		
TOTAL OTHER INCOME			\$93,750.00		
<u>SEED MONEY ADVANCE</u>			\$40,000.00		
<u>TOTAL INCOME:</u>			\$421,600.00		

Part II: EXPENSES

PROMOTION:

	Qty.	Fee	Budget	Int Rept	Final Rept
Brochure printing			\$22,000.00		
Program/prod and printing			\$5,500.00		
Mailing lists and labels			\$5,500.00		
Postage			\$25,000.00		
Mailing house			\$7,000.00		
Advertising			\$16,500.00		
Conference Posters			\$2,500.00		
Other/Souvenir Items			\$8,500.00		
TOTAL PROMOTION			\$92,500.00		

CONF. PUBLICATION

Proceedings Printing (2)	1300	\$23.00	\$29,900.00		
Comm. w./auth./sess. chairs			\$3,000.00		
Shipping(Conference/IEEE)			\$1,100.00		
TOTAL PUBLICATIONS			\$34,000.00		

EXHIBITS

Signage			\$1,650.00		
Prospectus and Contract			\$1,100.00		
Furniture			\$3,000.00		
Comm. w. Exhibitors			\$1,100.00		
TOTAL EXHIBITS			\$6,850.00		

SOCIAL FUNCTIONS

Optional Tours (1)					
Org. Committee Breakfast			\$1,500.00		
Coffee Breaks/Tutorials			\$3,500.00		
Coffee Breaks/Committee			\$1,600.00		
Coffee Breaks/Conference			\$32,000.00		
Opening Reception			\$8,300.00		
Reception			\$23,500.00		
TOTAL SOC. FCTN. EXP.			\$70,400.00		

ADMINISTRATION

Insurance and bonding			\$100.00		
Security and guard service			\$8,000.00		
Audio-video rental and op.			\$7,500.00		
Mgt. Fee (Sliding Scale)			\$30,000.00		
Office Equipment Rental			\$2,000.00		
Pr.forms tickets, stat., etc.			\$1,400.00		
Signs, badges, etc.			\$3,000.00		
Telephone, FAX, Copying			\$2,500.00		
Regist. help / Bookkeeping			\$11,000.00		

Registration supplies	\$800.00	
Contingency Fee Provision	\$10,000.00	
Prog. Committee Travel	\$12,000.00	
Chairman's Discr. Budget	\$15,000.00	
TOTAL ADMINISTRATION	\$103,300.00	
<u>ALL OTHER</u>		
Tutorials/Signage	\$1,650.00	
Tutorials/Notebooks (2)	\$7,300.00	
Tutorials/Audiovisual	\$1,500.00	
Tutorials/Honor./ Expenses	\$11,000.00	
Invited Speakers Expenses	\$10,000.00	
Audit	\$5,000.00	
Voluntary Help Expenses	\$5,000.00	
TOTAL OTHER EXPENSES	\$41,450.00	
<u>TOTAL EXPENSES</u>	\$348,500.00	
<u>LOAN REPAYMENT</u>	\$40,000.00	
<u>TOTAL OUTLAYS</u>	\$388,500.00	
<u>SURPLUS (LOSS)</u>	\$33,100.00	

NOTES:

- (1) Nonbudget item (To be offered separately)
- (2) IEEE Press Estimate (Ann Burgmeier)

Part III: SUMMARY**INCOME**

	Budget	Int Rept	Final Rept
6. Registration Fees	\$234,000.00		
7. Conf. Pub. Sales	\$17,250.00		
8. Exhibits	\$36,600.00		
9. Social Functions	\$0.00		
10. All other conf. receipts	\$93,750.00		
11. Total conference income	\$381,600.00		
12. Advance loans	\$40,000.00		
13. Total receipts	\$421,600.00		

EXPENSE

14. Promotion	\$92,500.00		
15. Conference Publications	\$34,000.00		
16. Exhibits	\$6,850.00		
17. Social functions	\$70,400.00		
18. Administration	\$103,300.00		
19. All other conf. expenses	\$41,450.00		
20. Total Conference Expenses	\$348,500.00		
21. Loan Repayments	\$40,000.00		
22. Total outlays	\$388,500.00		
23. Total receipts	\$421,600.00		
24. Total outlays	\$388,500.00		
25. <u>SURPLUS(LOSS)</u>	\$33,100.00		

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

Participating Societies:

Letters requesting involvement at the cooperating level have been sent to officers of the following societies:

IEEE Communications Society
IEEE Industrial Electronics Society
IEEE Control Society
IEEE Laser and Electro-Optics Society
IEEE Industrial Applications Society
IEEE Computer Society
IEEE Systems, Man, and Cybernetics Society
International Fuzzy Systems Association
North American Fuzzy Information Processing Society
Japan Society for Fuzzy Theory and Systems
IEEE San Francisco Bay Area Council

**Second International Conference on Fuzzy Systems
San Francisco, California, March 28 – April 1, 1993**

Conference Organizing Committee

General Chairman:

Dr. Enrique H. Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025
Tel.: [415] 859-2314 FAX: [415] 859-3735
E-Mail: ruspini@ai.sri.com

Technical Program Chairman:

Dr. Piero P. Bonissone
General Electric Corporate Research and Development
Building K-1, Room 5C32A
1 River Road
Schenectady NY 12301
Tel.: [518] 387-5155 FAX: [518] 387-6845
E-Mail: bonissone@crd.ge.com

Finance Committee:

Dr. Richard Tong (Chairman)
Advanced Decision Systems
1500 Plymouth Street
Mountain View CA 94043-1230
Tel.: [415] 960-7300 FAX: [415] 960-7500
E-Mail: rtong@ads.com

Prof. Roy S. Nutter
821 Electrical Engineering
University of West Virginia
Morgantown WV 26506
Tel.: [304] 293-6371 X510 FAX: [304] 293-5024
E-Mail: rsn@a.coe.wvu.wvnet.edu

Publicity Committee:

Dr. Hamid Berenji (Chairman)
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Bruce D'Ambrosio
Department of Computer Science
Oregon State University
Corvallis OR 97331
E-Mail: dambrosio@cs.orst.edu

Prof. Ramón López de Mántaras
Centro de Estudios Avanzados
CSIC
Cami de Santa Bàrbara
17300 Blanes, Girona, SPAIN
Tel.: [34] 72- 33 61 01
E-Mail: mantaras@ceab.es

Tutorials Committee:

Prof. James C. Bezdek (Chairman)
Computer Science Department
University of West Florida
Pensacola FL 32514
Tel.: [904] 474-2784
E-Mail: jbezdek@uwf.bitnet

Dr. Hamid Berenji
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Hiroyuki Watanabe
Department of Computer Science
University of North Carolina
CB # 3175 - Sitterson Hall
Chapell Hill NC 27599
Tel.: [919] 962-1817 FAX: [919] 962-1799

Exhibits Committee:

Dr. Masaki Togai (Cochairman)
Togai Infralogic
5 Vanderbilt
Irvine CA 92718
Tel.: [714] 975-8522

Dr. Wei Xu (Cochairman)
Apronix Inc.
2150 North First Street, Suite 300
San Jose CA 95131
Tel.: [408] 428-1888 FAX: [408] 428-1884

Prof. Takeshi Yamakawa (Cochairman)
Faculty of Computer Science and Systems Engineering
Kyushu Institute of Technology
Kawazu 680-4
Iizuka, Fukuoka, JAPAN
Tel.: [81] 948-27-7712 FAX: [81] 948-28-5582

Prof. Llorenç Valverde (Cochairman)
Departamento de Matemática e Informática
Universitat de les Illes Balears
Ctra. de Valldemossa, Km. 7.5
07071 PALMA - MALLORCA, SPAIN
Tel.: [34] 17 32 44
E-Mail: dmilvg@cc.uib.es

Local Arrangements Committee:

Prof. Sergei Ovchinnikov
Department of Mathematics
San Francisco State University
San Francisco CA
Tel.: [415] 469-1387

TAB 14

TAB 15



Department of Electrical and Computer Engineering

West Virginia University

July 15, 1991

Prof. Toshio Fukuda
Dept. of Mech. Eng., Nagoya Univ.
Furo-cho, Chikusa-ku, Nagoya 464-01
JAPAN

RE: Approval of IJCNN'93 - Nagoya, Japan July 12, 1991

As the chairman of IOC, I am pleased to inform you that your proposal of IJCNN'93 - Nagoya, Japan, Oct. 25-29, 1991 was formally approved by IOC, including the preliminary budget.

You can work with Prof. S. Amari together as "General Co-Chair". Since IEEE is a lead society of the conference, you are responsible entirely for the planning and operation of the conference even though you share the conference chairman job with him. You are the steering committee chair, Prof. Amari is the organizing committee chair. Thus the organizing committee chair must consult with you at any stage.

Under your strong leadership, you must form the program committee, finance committee, publicity committee, publication committee, tutorial committee, exhibition committee, local arrangement committee, and other committees if necessary. You must/can follow the IEEE guideline as a reference. It is the job of the steering committee chairman to make sure that you appoint a good program chair/co-chair under your control so that the program chair/co-chair should follow the advice and instructions of the steering committee chair. It is the same for other committees also.

Please submit the detailed budget of the conference to the next IOC meeting. Please let me know if you have any comments or need assistance.

Sincerely,

A handwritten signature in cursive script, reading "Roy S. Nutter".

Prof. Roy S. Nutter
IOC Chairman

cc: Bob Marks, President of IEEE NNC
Paul Werbos, President of INNS

University of Tokyo
Faculty of Engineering
Department of Mathematical Engineering and Information Physics
Bunkyo-ku, Tokyo 113, Japan

September 6, 1991

Prof. Robert J. Marks, II
President of the IEEE NNC
Electrical Engineering
University of Washington
Mail Stop FT-10,
Seattle,, Washington, 98195
U. S. A.

Dear Professor Marks, II :

I am now going to establish the Organizing Committee of the IJCNN'93-Nagoya together with Prof. T. Fukuda, who is to be the chairman of the Steering Committee.

Before the start, I would like to make things clear, which we have already agreed to and which I believe have also been discussed at IOC.

The IJCNN'93-Nagoya will be cosponsored by the IEEE NNC (lead Society), INNS, and a number of Japanese societies, namely JNNS (Japanese lead Society), IEICE, SICE, in addition to non-academic societies Nagoya City, Aichi Prefecture, and Sanken Foundation. The latter three are newly added for financial matters to go smoothly, following to Fukuda's request. The IEEE NNC, INNS and Japanese group have each equal 1/3 responsibility for any surplus or deficit of the Conference.

The Organizing Committee which I will chair is responsible for deciding fundamental principles and policies of the Conference. The Committee will form the Steering Committee chaired by T. Fukuda and the Program Committee chaired by K. Fukushima and B. Marks, II. The steering committee is responsible for substantiation and execution of the policies decided by the organizing committee. It consists of a number of subcommittees. The program committee is one of the subcommittees, but it is directly responsible for all academic events.

If you have any questions or comments, I would appreciate receiving them as soon as possible, before the initiation of the Organizing Committee which is scheduled to start on the 15th October 1991.

Sincerely yours,



Shun-ichi Amari

SA/yh

cc: T. Fukuda (Steering Chair)
Roy Nutter (IOC Chair)
P. Werbos (INNS President)
K. Fukushima (JNNS President)

TAB 16

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

October 3, 1991

Professor Robert J. Marks II
President
IEEE Neural Networks Council
Department of Electrical Engineering
University of Washington

Dear Bob:

March 28th
Apr 15th

June Oct 25

Thank you for your letter of July 25th informing us of the Council's approval of our proposal for the *Forum on Applications of Artificial Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing* contingent on moving the date of the meeting to avoid conflict with Neural Network Society conferences. We are therefore moving the meeting date to March 15-18, 1993. Would you please verify that this date is acceptable to the NNC. As soon as we receive approval, we plan to move forward with our preparations for the forum.

Sincerely,



Akira Ishimaru
Professor

AI/nh

cc: Conference Committee:

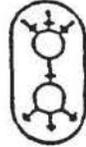
C. H. Chan
J. N. Hwang
T. A. Seliga
L. Tsang

TAB 17



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

October 25, 1991

Yasuo Tamura, Professor
ANNPS '93 General Chairman
Department of Electrical Engineering
Waseda University
3-4-1 Shinjuku-ku, Tokyo 160
Japan

Dear Dr. Tamura:

Thank you for your recent letter requesting involvement of the IEEE Neural Networks Council in the Second Annual International Forum on Applications of Neural Networks to Power Systems. I have forwarded your request to the NNC Meetings Committee Chair, Dr. Roy Nutter, for consideration.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair
M. A. El-Sharkawi
NNC ExCom

See

**SECOND INTERNATIONAL FORUM ON
APPLICATIONS OF NEURAL NETWORKS TO POWER SYSTEMS**

April 19-22, 1993
Yokohama, Japan

October 10, 1991

Prof. Robert J. Marks II
President
IEEE Neural Network Council
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 981295
U.S.A.

**Re: Participation of IEEE Neural Network Council in Second International Forum on
Applications of Neural Networks to Power Systems (ANNPS '93)**

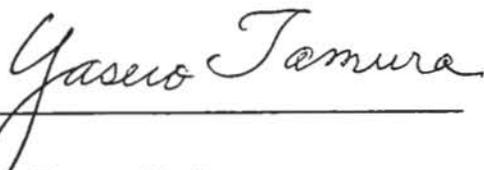
Dear Prof. Marks:

We are organizing the Second International Forum on Applications of Neural Networks to Power Systems to be held in Yokohama, Japan, April 19-22, 1993. We need your help. I heard from Dr. H. Mori, Meiji University, Japan, that, as the president of IEEE Neural Network Council, you intended to support the forum. He said that you had an intention that the IEEE Neural Network Council would give a help to the forum as the participation. I would appreciate it very much if the Neural Network Council could participate the forum. I am looking forward to hearing from you by FAX. My Fax Number is as follows:

Fax. No.: +81-3-3205-2615

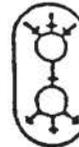
Thank you for your hearty support.

Sincerely yours,



Yasuo Tamura, Professor
ANNPS '93 General Chairman
Department of Electrical Engineering
Waseda University
3-4-1 Shinjuku-ku, Tokyo 160
Japan

TAB 18



NEURAL NETWORKS COUNCIL

Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

October 25, 1991

Dr. W. S. Gan
Acoustical Services PTE. LTD.
209-212 Innovation Centre
Nanyang Crescent
Singapore 2263

Dear Dr. Gan:

Thank you for your recent letter requesting involvement of the IEEE Neural Networks Council in the International Conference on the Application of Neural Networks to Signal Processing in Singapore in March 1993.

I have forwarded your letter to R. S. Nutter, Neural Networks Council Meetings Chair, for his consideration. The NNC should provide a response to your request by December 15.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair

R. Eberhart



209-212 Innovation Centre, Nanyang Crescent, Singapore 2263.

Tel : ~~2660242~~ 7913242
Fax : (065) 2660665 7913665
Telex: RS 28494 ASCPL

15 October 1991

Prof. Robert I. Marks
President
Neural Networks Council
Interactive System Design
Laboratory
Dept. of Electrical Engineering
University of Washington
Seattle, WA 98195
USA

Fax NO.005 1206 5433840

Dear Prof. Marks,

I am the Chairman of the Signal Processing chapter, IEEE Singapore section. Our Chapter is planning to organize an International Conference on the Application of Neural Networks to Signal Processing in Singapore in March 1993.

We intered to apply fo the sponsorship and approval of the Neural Networks Council for organizing this conference.

Please find enclosed herewith a copy of my buget estimate. Hoping your kind Considerations.

Please fax reply to me asap. Our fax no is (65) 7913665.

Thank you. Regards

Dr. W.S.Gan

P.S. Please confirm whether your fax no is 005-1-206-5433840.
We find it difficult to get through!

Number of Delegates: 100 (80 IEEE Members and Non- IEEE Members)
 (All in US\$)

Income

Registration Fees

(\$325 for IEEE Members and
 \$340 for Non- IEEE Members) 32,800
 5,900

Publication Sales

38,700

Total Receipts

Expenses

Promotional:

530
 Printing CFP 1,480
 Printing Adv Program 710
 Printing Final Program 300
 Mailing Labels from IEEE 530
 Mailing CFP 1,060
 Mailing Adv Program 710
 Advertising 5,370

Conference Publications:

Printing of author's kit 120
 Mailing of author's kit 590
 Printing of Proceedings 3,550
 Shipping costs 890
 5,150

Administrative

Management Fee for Conference 2,370
 and Exhibition (\$24 per delegate)
 Stationary 150
 Telecommunications 150
 AV equipment rental 590
 Committee expenses
 (meeting airfare etc.) 2,660
 Insurance 590
 6,510

Local Arrangements:

Conference Venue 11,740
 (Lunch and teas)
 Banquet 3,040
 Exhibition 1,420
 16,200

Total Expenses

33,180

SURPLUS=38,700 - 33,180
 = 5,520

Hence the breakeven point is about 100 delegates.

Budget For 1st International Conference On The Application of
 Neutral Network(All in U\$)

Number of Delegates: 300 (200 IEEE Members and 100 Non -IEEE Members)

Income

Registration Fees

(\$325 for IEEE Members and
 \$340for Non-IEE Members)

99,000
 5,900

Publication Sales

Total Receipts

104,900

Expenses

Promotional:

Printing CFP 530
 Printing Adv Program 1,480
 Printing Final Program 710
 Mailing Labels from IEEE 290
 Mailing CFP 530
 Mailing Adv Program 1,060
 Advertising 710

5,310

Conference Publications:

Printing of auther's kit 120
 Mailing of auther's kit 590
 Printing of Proceedings 10,650
 Shipping costs 890

12,250

Administrative:

Managment Fee For Conference
 and Exhibition (\$24 per delegrate) 7,100
 Stationary 150
 Telecommunications 150
 AV equipment rental 590
 Committee expenses
 (meeting airface etc.) 2,660
 Insurance 590

11,240

Local Arrangements:

Conference Venue 35,200
 (Lunch and 2 teas) 9,100
 Banquet 1,420
 Exhibition

45,720

TOTAL EXPENSES

74,520

SURPLUS = 104,900 - 74,520
 = 30,380

TAB 19

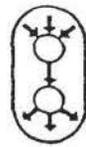
- To replace the conference involvement type of Participation with:

Technical Co-Sponsorship indicates significant shared involvement in the organization of the technical program, assisting with publicity and encouraging members to submit papers and attend the conference. Such conferences are entitled to IEEE services at the non-profit rate. Such conferences are obligated, when requested, to make available to IEEE copies of their conference records (proceedings) for post conference sale for which it will be reimbursed in the same manner as IEEE sponsored conferences.

TAB 20



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

September 17, 1991

Perry Sensi
IEEE
P. O. Box 1331
Piscataway, New Jersey 08855-1331

Dear Perry:

I would appreciate any comments you have on the attached contract. We will be reviewing it at the November 18 meeting of our ExCom.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

Attachment

C: ExCom
R. Eberhart, President-elect
P. Simpson, Vice President-elect
E. Tzanakou, Secretary
M. Roth, Editor-in-Chief

5665 oberlin drive
suite 110
san diego
california
92121

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive

consultants
and coordinators

conventions
meetings

conferences
symposia

(619)
453-6222
fax (619)
535-3880

m e e t i n g m a n a g e m e n t

September 5, 1991

Robert J. Marks, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

The following services will be provided by Meeting Management for the **1994 World Congress on Intelligent Systems**, which will include ICNN International Conference on Neural Networks, Fuzz-IEEE and Genetic Algorithms. The Congress will be held July 16-23, 1994, in Washington, D.C.

A. Site Selection

1. Select appropriate space for the Conference, with particular attention to meeting space, exhibit and poster area, sleeping accommodations and comfortable ambiance.
2. Negotiate best possible price for Conference and for registrants.

B. Advance Planning

1. Work with Program Chairs to develop timetable of dates and deadlines.
2. Work with the Program Committees to develop the meeting program format, its timing for publication and promotion, and coordinate the groups involved with the facilities available.

C. Conference Headquarters

1. Serve as secretariat address and office for the conference, before, during and after the meeting throughout the year.
2. Act as clearing center for all correspondence, telephone inquiries, registration, income/expenses, receipts, forms, etc.

D. Travel Arrangements

Negotiate with airlines for best price and service to the destination city. Arrange for complimentary flights for the speakers, if available.

E. Program Coordination

1. Coordinate with committees on design of special room arrangements for each session.
2. Contact speakers and session chairs to determine their specific audio-visual requirements and to communicate specific program instructions.
3. Arrange for audio-visual equipment and projectionists for all scientific sessions in accordance with each speaker's requirements.

F. Design and Printing

1. Receive program copy from Program Chairs. Assist in preparation of general copy and supervise printing for preliminary mailings.
2. Arrange for typesetting, graphic design, layout and printing of announcements.
3. Prepare and print advance registration cards and hotel reservation forms to be included in mailings.
4. Assist in the preparation of general copy and supervise printing of the Final Meeting Program.
5. Design, prepare copy and print final program, exhibit program, badges, tickets for the tutorials and social functions, signs, special information material, and conference packets, subject to approval of Committee.

F. Design and Printing (continued)

6. Arrange and supervise printing of Proceedings. Camera-ready papers will be provided by presenters. Type-setting of cover, table of contents and pagination will be arranged by Meeting Management according to IEEE requirements.

G. Mailings

Handle all arrangements for mailings. Negotiate with mailing house for best price and service. Supervise completion of mailings.

H. Mailing Lists

Select best sources of mailing lists with guidance of Chairs.

I. Journals

Place announcements and advertisements in relevant journals. Send announcements to secretaries of societies. List of Journals to be provided by Chair.

J. Technical and Scientific Exhibits

1. Assist Exhibit Chair with solicitation of exhibitors.
2. Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.
3. Communicate with exhibitors regarding booth location, exhibit fees, exhibitor packets, name badges and designation of representatives for attendance to conference.

K. Proceedings

1. Receive abstracts/papers and forward to Program Chair for review. Process and log papers.
2. Send abstracts/papers to reviewers as indicated by Program Chair. Coordinate the review process.
3. Receive accepted or rejected abstracts from reviewers.

K. Proceedings (continued)

4. Send letters of acceptance or rejection to authors.
5. Prepare Proceedings for printing. Provide table of contents, author index, pagination and prepare Proceedings for printing.
6. Select printer and publisher on basis of competitive bids. Supervise publication and shipping to Conference site and appropriate number to IEEE headquarters.

L. Poster Sessions

1. Notify authors of day, time and location of their presentation, and send them instructions for the format of the posters.
2. Map the poster session area and obtain appropriate numbers of poster boards.
3. Provide poster numbers and necessary supplies.
4. Monitor poster sessions throughout the meeting.

M. Advance Registration

1. Develop systems and procedures for receipt and processing of advance registration forms.
2. Maintain accurate financial records of all advance registration income.
3. Prepare receipts, badges and packets for all registrants. Issue ribbons as appropriate.
4. Respond to requests for forms and information.

N. Meeting Site Arrangements

1. Reconfirm adequate meeting space with hotel.
2. Coordinate program elements and instruct hotel staff regarding exact floor layout, anticipated attendance, audio-visual equipment, signs and all other meeting requirements.

N. Meeting Site Arrangements (continued)

3. Arrange for sleeping rooms for VIP and speakers.
4. Arrange catering functions - determine per plate costs, plan menu and coordinate all catering activities.
5. Supervise performance of hotel personnel during entire conference.

O. Registration

1. Type badge for each current registrant and insert in badge cover.
2. Prepare information packet for each attendee which will contain badge, final program, exhibit guide, city information and any other material deemed appropriate.
3. Hire registrars, cashiers and typists for registration desks to distribute Conference packets to advance registrants, all exhibitors, and to process on-site registrants.
4. Provide city information and general hospitality service to registrants.
5. Provide message center.

P. On-Site Conference Management

1. Staff registration desks during the entire period of the conference.
2. Supervise the performance of the hotel during the entire duration of the meeting and resolve any problems arising during the conferences.
3. Supervise set-up and arrangements of booth set-up for the exhibitors.
4. Serve as a coordination point for Conference personnel. Organize, maintain and administer on-site Conference office.

P. On-Site Conference Management (continued)

5. Inspect meeting room set-up daily to verify that it is properly prepared in accordance with specifications.
6. Hire security guards and supervise their activities on site.
7. Work with local tour operators on social programs, if desired.
8. Display up-to-date lists of registrants and their affiliations.

Q. Social Events

Arrange for adequate space, transportation, guest lists, invitations, reservations, menus, guarantees, flowers, decorations, ticketing, overall coordination for events as scheduled.

R. Fiscal Responsibility

1. Assist Treasurer with preparation of conference budget.
2. Receive and deposit advance, current registration fees, tutorial fees and exhibit fees in a special bank account.
3. Deposit contributions, exhibit fees and Proceedings fees.
4. Approve bills for items ordered by Meeting Management.
5. Provide final report showing:
 - a. The number of participants registered and amount of registration fees received and outstanding.
 - b. Number of participants registered for the tutorials, amount of tutorials fees received and amount outstanding.
 - c. Number of exhibitors and fees received for exhibit booths.
 - d. Detailed account of all other income.

R. Fiscal Responsibility (continued)

- e. An accounting of all bills paid by Meeting Management listed by category as indicated in the budget.

S. Post Conference Activities

1. Maintain office address on a year-round basis for late mail, inquiries, etc.
2. Save records for use for following year.

Compensation

The fee for the services listed in this proposal shall be as follows:

ICNN:

\$43,000 for the first 1500 registrants and \$24 for each registrant above 1500.

Fuzz-IEEE:

\$22,000 for the first 700 registrants and \$24 for each registrant above 700.

Genetic Algorithms:

\$12,000 for the first 300 registrants and \$24 for each registrant above 300.

These amounts will be reduced by the hotel room commissions received by Meeting Management. An advance of \$10,000 shall be paid by July 1992, and an additional \$15,000 shall be paid by July 1993 with the remainder to be paid at the conclusion of the Conference, July 1994.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, I shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, IEEE and the Council on Neural Networks will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Robert J. Marks, II
President, IEEE Neural Networks Council

Date

Nomi Feldman

Nomi Feldman
President, Meeting Management

9/5/91

Date

TAB 21



IEEE

TECHNICAL ACTIVITIES BOARD

Harold S. Goldberg, P.E.
TAB TREASURER

PLEASE REPLY TO:
10 Alcott Road
Lexington, MA 02173 USA
Tel: (617) 862-9262
Fax: (617) 246-2787
E-mail: h. goldberg

TO: TAB
FROM: Harold S. Goldberg, Treasurer
DATE: October 6, 1991 *HSG*
SUBJECT: Report of Chairman of Finance Committee

On September 25, 1991, the TAB Finance Committee met in Piscataway. This is a report on the results of that meeting which should be of interest to TAB.

1. The Treasurer's budget report was reviewed and the financial history and fiscal recommendations were discussed. It was agreed that the contents of this report and the recommendations therein should be presented to TAB.

2. A proposed graphical method of monitoring financial operation and of presenting it to the TAB Council Chairmen and others, when necessary, was demonstrated to the Finance committee members. These budgets would include each of the TAB cost centers. (i.e.. Conference Services, Councils, Director Support, etc.) The Finance Committee approved the use of graphs to monitor the activities of TAB. In addition, in the future, each of the responsible people, such as Council Chairmen, are to be provided advance copies of their budgets for review and modification, in a timely manner.

3. The Committee reviewed a proposal from the Neural Networks Council for a new publication, the "Transactions on Fuzzy Systems", to begin in 1993. The committee discussed the proposal with Robert Marks, President of NNC, and James Bezdek, principal author of the proposal, via a conference telephone call. After a financial review of the proposal the Finance Committee approved the financial aspects of the Transactions and voted to send their endorsement to the Periodicals Council and the Publications Board.

4. The Committee reviewed the procedure to be used to approve the S/C budgets for TAB prior to submission to the IEEE Execu-

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

TAB 22

Applied Physics Laboratory



Robert J. Marks
Neural Networks Council
University of Washington
Seattle, WA 98195

Oct. 3, 1991

Dear Dr. Marks

The Neural Networks Council (NNC) appointed me to be a liaison member to the IEEE Committee on Man and Radiation (COMAR). The purpose of COMAR is to represent the IEEE in matters associated with health effects related to electrical and electromagnetic exposure. A major activity is to develop position statements for public dissemination.

I participated in a COMAR meeting as a new representative of NNC last July. The meeting was held in connection with the Bioelectromagnetics Society annual meeting in Salt Lake City. Membership in COMAR is listed in Attachment A.

Attachment B outlines the planned agenda for the July meeting. Some recent activities of COMAR are summarized below.

1. Position paper on research needs. The committee approved a position paper entitled "Research in the area of health effects of power frequency electric and magnetic fields". The position statement was motivated by the opinion commonly held by the scientific community that focused research is needed to define safe limits for human exposure to ELF fields.

2. Position paper on "Currents of Death". A recent book appeared by Paul Brodeur entitled "Currents of Death". The book takes the position that many in our society are exposed to dangerous levels of EM radiation due to exposure to power lines, video display terminals, and other sources. COMAR commissioned Elanor Adair to develop a critical review of Brodeur's book. A synopsis of the 33-page review was published in the February, 1991 issue of the IEEE Power Engineering Review (Attachment C).

3. Other Activities in progress.

- Letter drafted to MACWORLD in response to several articles on health risks associated with video display terminal EM fields, including one article by Paul Brodeur (July, 1990).
- Draft report on safety of EM pulse simulators (by Howard Bassen)
- Draft report entitled "Medical Applications of EM Fields" (by C, H, Sutton et al.)
- Safety of hand-held police radar transmitters.

Interested parties may contact me for a fuller description of COMAR activities and publications.

A handwritten signature in cursive script that reads "J. Patrick Reilly". Below the signature is a horizontal line, and underneath the line, the name "J. Patrick Reilly" is printed in a serif font.
J. Patrick Reilly

cc: R.E. Eberhart

Johns Hopkins Road, Laurel, Maryland 20723-6099

Washington (301) 953-5000 Baltimore (301) 792-5000

<u>Officers</u>	<u>Term/Officer</u>	<u>Term/Elected Member</u>
Dr. James Lin, Chairman*	1990-1991	1988-1990
Dr. John Osepchuk, Vice Chairman*	1990-1991	1988-1990

<u>Elected Members</u>	<u>Term</u>
Dr. Eleanor Adair*	1991-1993/2nd Term
Mr. Howard Bassen*	1990-1992
Dr. Thomas Budinger*	1990-1992
Dr. C.K. Chou*	1990-1992
Mr. Robert Curtis*	1990-1992
Dr. John D'Andrea	1989-1991
Dr. David N. Erwin*	1989-1991
Dr. Kenneth Foster*	1990-1992
Dr. Om Gandhi*	1989-1991
Mr. Louis Heynick	1991-1993
Dr. Bengt Knave	1990-1992
Dr. Leeka Kheifets	1991-1993
Dr. Robert Liburdy	1991-1993
Mr. Gregory Lotz	1990-1992
Dr. Sol Michaelson*	1991-1993
Dr. Kjell Mild	1990-1992
Dr. George Mine	1991-1993
Dr. John Monahan	1989-1991
Dr. Granger Morgan*	1991-1993
Dr. William F. Pickard*	1989-1991
Dr. Charles N. Rafferty	1990-1992
Dr. Lee Rosen	1991-1993
Dr. Asher Sheppard	1990-1992
Dr. Carl Sutton*	1991-1993/2nd Term
Dr. Thomas S. Tenforde	1989-1991

<u>Liaison Members</u>	<u>IEEE Representation</u>
Dr. Robert Ashley*	Instrumentation & Measurement Society
Mr. Fred Cain*	Antennas & Propagation Society
Dr. Marcus Durham*	Industrial Applications Society
Dr. Thelma Estrin*	IEEE United States Activities Board
Dr. William Feero*	Power Engineering Society
Dr. Leonard Frizzell*	Ultrasonics, Ferroelectrics and Frequency Control Society
Dr. Dennis Hjeresen*	Circuits and Systems Society
Mr. Daniel Hoolihan*	Electromagnetic Compatibility Society
Mr. John Kean*	Broadcast Technology Society
Mr. Seymour Krevsky*	Engineering Management Society
Dr. Javaid Laghari*	Dielectrics & Electrical Insulation Society
Mr. Ron Petersen*	Microwave Theory & Techniques Society
Dr. Charles Polk*	Engineering in Medicine and Biology Society
Dr. Patrick Reilly*	Neural Networks Council
Mr. William Tackaberry*	IEEE United States Activities Board
Mr. Donald W. Zipse*	Industrial Applications Society

<u>Others</u>	
Mr. Frederick Lipps	(Status Not Known)
Mr. G. Andrew Mickley	Alternate to Dave Erwin

* = IEEE members



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE INFORMATION SCHEDULE

See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 2. Dates of Conference MARCH 28 - APRIL 1, 1993
 3. Location of Conference (full name and address) HYATT REGENCY SAN FRANCISCO, FIVE EMBARCADERO LENTEL, SAN FRANCISCO, CA 94111
 4. Estimated Attendance 720
 5. Exhibits Yes No
 6. Will there be a Conference publication? Yes No If yes, check one box below.
 Conference Record Other (explain)

IEEE ENTITY INVOLVEMENT

7. If IEEE entity involvement is either Sponsorship or Cosponsorship as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and their percent of financial share.

Entity	<u>IEEE NEURAL NETWORKS COUNCIL</u>	%	<u>100</u>
Entity	_____	%	_____
Entity	_____	%	_____
Entity	_____	%	_____

8. If IEEE entity involvement is either Participating or Cooperating as defined on reverse side, enter below the names of all involved IEEE and non-IEEE entities and indicate the involvement of each.

Entity	Type of Involvement	
	Participating	Cooperating
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>
Entity	<input type="checkbox"/>	<input type="checkbox"/>

PLEASE SEE ATTACHED LIST

9. Has the Section within whose geographical boundaries the Conference is being held been notified? Yes No
 If yes, who was contacted? LETTER SENT TO ROBERT TENN, CHAIRMAN, S.F. 1504 AREA COUNCIL

10. Has IEEE Conference Insurance form been submitted? Yes No

ADMINISTRATION

For the following Conference officers, enter first name, middle initial and last name, plus complete address and telephone number.

CONFERENCE CHAIRMAN ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025

INFORMATION CONTACT NOMI FELDMAN Tel. No. (619) 453-6222
 Address MEETING MANAGEMENT, 5665 OBERLIN DRIVE, SUITE 110, SAN DIEGO, CA 92121

COMMITTEE MEMBERS

If available, please attach to this form a complete list of Conference Committee members, their titles, addresses and telephone numbers.

SUBMITTED BY:

Name ENRIQUE A. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE Enrique Ruspin Date 10-28-91

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART I: INCOME

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All income items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 Dates of Conference MARCH 28 - APRIL 1, 1993

INCOME

REGISTRATION FEES	Quantity	Fee	=	Budget	Interim Report	Final Report
In Advance - Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
In Advance - Nonmembers	_____ x	_____	=	_____	_____	_____
In Advance - Reduced Rate	_____ x	_____	=	_____	_____	_____
At Conference - Members	_____ x	_____	=	_____	_____	_____
At Conference - Nonmembers	_____ x	_____	=	_____	_____	_____
At Conference - Reduced Rate	_____ x	_____	=	_____	_____	_____
Total Registrants	_____	Total	=	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

CONFERENCE PUBLICATION SALES	Quantity	Fee	=	Budget	Interim Report	Final Report
To Members	_____ x	_____	=	\$ _____	\$ _____	\$ _____
To Nonmembers	_____ x	_____	=	_____	_____	_____
To IEEE Hq.	_____ x	_____	=	_____	_____	_____
Total Copies	_____	Total	=	\$ _____	\$ _____	\$ _____

EXHIBITS	Quantity	Fee	=	Budget	Interim Report	Final Report
Tables	_____ x	_____	=	\$ _____	\$ _____	\$ _____
Booths	_____ x	_____	=	_____	_____	_____
Booths	_____ x	_____	=	_____	_____	_____
Total	_____	Total	=	\$ _____	\$ _____	\$ _____

SOCIAL FUNCTIONS	Total	Budget	Interim Report	Final Report
(Itemize by event on separate sheets.)	\$ _____	\$ _____	\$ _____	\$ _____

ALL OTHER (List here or attach details.)	Budget	Interim Report	Final Report
_____	\$ _____	\$ _____	\$ _____
_____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL INCOME	\$ _____	\$ _____	\$ _____

NOTE: BE SURE TO ATTACH THIS FORM TO "PART II: EXPENSE" AND MAIL BOTH FORMS TOGETHER.

RETURN TO: IEEE CONFERENCE SERVICES 445 HOES LANE, P.O. BOX 1331, PISCATAWAY, N.J. 08855-1331, U.S.A.



IEEE TECHNICAL ACTIVITIES
IEEE CONFERENCE DETAILED FINANCIAL REPORT - PART II: EXPENSE

This form should be completed only for IEEE sponsored or cosponsored Conferences. The care taken in filling out this report will lead to a more accurate projection of your Conference's net surplus or loss.

NOTE: All expense items may be expressed in either U.S. Dollars or in local currency.

Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS Dates of Conference MARCH 28 - APRIL 1, 1993

PROMOTION	Budget	Interim Report	Final Report
Printing / Call for Papers	\$ _____	\$ _____	\$ _____
Printing / Advance Program	_____	_____	_____
Printing / Final Program	_____	_____	_____
Mailing Lists / Labels	_____	_____	_____
Postage	_____	_____	_____
Other _____	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
CONFERENCE PUBLICATION			
Conference Record / Digest Printing	\$ _____	\$ _____	\$ _____
Author Kits Printing	_____	_____	_____
Shipping to Site and IEEE Hq.	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
EXHIBITS (Attach detailed statement of all expenses necessary to mount and display exhibits.)			
Total	\$ _____	\$ _____	\$ _____
SOCIAL FUNCTIONS (Itemize event on separate sheets.)			
Total	\$ _____	\$ _____	\$ _____
ADMINISTRATION			
Insurance & Bonding	\$ _____	\$ _____	\$ _____
Security & Guard Service	_____	_____	_____
Projection Equip. Rent & Operator	_____	_____	_____
Management, Secretarial Services	_____	_____	_____
Office Equip. Rental	_____	_____	_____
Printing forms, Tickets, Stationery, Etc.	_____	_____	_____
Posters, Signs, Badges, Etc.	_____	_____	_____
Telephone	_____	_____	_____
Transportation	_____	_____	_____
Gratuities, Etc. (Attach details)	_____	\$ _____	\$ _____
Total	\$ _____	\$ _____	\$ _____
ALL OTHER			
Committee Expenses	\$ _____	\$ _____	\$ _____
Other (Attach Details)	_____	_____	_____
Total	\$ _____	\$ _____	\$ _____
TOTAL EXPENSES	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

CURRENCY

State here the currency utilized in above computations, e.g., U.S. Dollars, Swiss Francs, etc.

Currency utilized: U.S. DOLLARS

In the event a currency other than the U.S. Dollar is utilized, it will be necessary to convert to U.S. Dollars - at the current conversion rate - when submitting your final Summary Financial Report to IEEE.

SUBMITTED BY:

Name ENRIQUE A. RUPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE [Signature] Date 10-28-91

NOTE: BE SURE TO ATTACH THIS FORM TO "PART I: INCOME" AND MAIL BOTH FORMS TOGETHER

IEEE TECHNICAL ACTIVITIES

SUMMARY FINANCIAL REPORT FOR IEEE SPONSORED OR COSPONSORED CONFERENCES



See reverse side for instructions on how to complete this form

CONFERENCE

1. Full title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
 2. Dates of Conference MARCH 28 - APRIL 1, 1993
 3. Location of Conference (full name and address) HYATT REGENCY HOTEL, FIVE EMBARCADERO CENTER, SAN FRANCISCO, CA 94111

TYPE OF REPORT / CURRENCY USED

4. Indicate type of report by checking one box:
 Budget Interim Report Final Report

5. All income and expense figures below must be in U.S. Dollars. For Conferences held outside the U.S.A., indicate here the local currency (e.g., Swiss Francs) and the conversion rate used (local currency units per 1 U.S. Dollar) and date.
 Local currency: U.S. \$ Conversion rate: _____ Date of conversion rate: _____

INCOME

	Budget	Interim Report	Final Report
6. Registration Fees	\$ _____	\$ _____	\$ _____
7. Conference Publication Sales	_____	_____	_____
8. Exhibits	_____	_____	_____
9. Social Functions	_____	_____	_____
10. All Other Conference Receipts	_____	_____	_____
11. Total Conference Income	_____	_____	_____
12. Advance Loans	_____	_____	_____
13. Total Receipts	\$ _____	\$ _____	\$ _____

(SEE ATTACHED ITEMIZATION)

EXPENSE

	Budget	Interim Report	Final Report
14. Promotion	\$ _____	\$ _____	\$ _____
15. Conference Publications	_____	_____	_____
16. Exhibits	_____	_____	_____
17. Social Functions	_____	_____	_____
18. Administration	_____	_____	_____
19. All Other Conference Expenses	_____	_____	_____
20. Total Conference Expense	_____	_____	_____
21. Loan Repayments	_____	_____	_____
22. Total Outlays	\$ _____	\$ _____	\$ _____

SURPLUS / (LOSS)

23. Total Receipts (13) \$ _____ 24. Total Outlays (22) \$ _____
 25. Surplus (Loss) - (Item 23 less Item 24) \$ _____

POST CONFERENCE DISTRIBUTION

Surplus (Loss) in Item 25 to be distributed as follows:

	Cosponsor Entity	% Share	\$ Distributed
a.	<u>IEEE NEURAL NETWORKS COUNCIL</u>	<u>100</u>	_____
b.	_____	_____	_____
c.	_____	_____	_____
d.	_____	_____	_____
		Surplus (Loss) \$	_____

CONFERENCE FINANCIAL INSTITUTION

Name of Bank _____
 Address _____
 Conference Account Title _____ Account No. _____
 Have you requested IEEE Conference Insurance? Yes No

SUBMITTED BY:

Name ENRIQUE H. RUSPINI Tel. No. (415) 859-2314
 Address SRI INTERNATIONAL, 333 RAVENSWOOD AVE., MENLO PARK, CA 94025
 Conference Position GENERAL CHAIRMAN

SIGNATURE [Signature] Date 10-28-91



1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
IEEE TECHNICAL ACTIVITIES

**IEEE CONFERENCE SERVICES DEPARTMENT
 CONFERENCE PUBLICATION FORM.**

See reverse side for instructions on how to complete this form.

PLEASE NOTE: THIS INFORMATION IS REQUIRED IN ORDER TO INCLUDE THIS CONFERENCE RECORD IN THE IEEE BOOK BROKER PROGRAM FOR POST CONFERENCE SALES.

Parts A and B should be completed by the Conference Publications Chairman and returned no later than six (6) months prior to the conference to:

**IEEE CONFERENCE SERVICES, 445 HOES LANE, PISCATAWAY, NJ 08854
 PHONE: (908) 562-3878 FAX: (908) 562-1571**

Please allow 4 weeks to obtain appropriate catalog & identification numbers from IEEE Headquarters.

Part A CONFERENCE PUBLICATION INFORMATION

1. Full Title of Conference SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
2. Dates of Conference MARCH 28-APRIL 1, 1993
3. Location of Conference (full name & address) HYATT REGENCY, FIVE EMBARCADEO CENTER, SAN FRANCISCO, CA
4. Financial Sponsors IEEE NEURAL NETWORKS COUNCIL
5. Non-financial IEEE Entities COMMUNICATIONS SOC., INDUST. ELECT. SOC., LASER & ELECTROOPT. SOC. INDUSTRIAL APPL. SOC.
6. Full Name of Publication as it Will Appear on Title Page SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS, SAN FRANCISCO, CA 1991
7. Scheduled Date of Publication 3/91
8. Est. Shipping Date to IEEE 3/91
9. Est. Pages 1300
10. Paper size 8.5 x 11
11. Volumes 2
12. Copyright: IEEE Other _____
13. Name & Address of Other Entity Holding Copyright N/A

Part B PRODUCTION/PRINTING/PAYMENT INFORMATION

1. Name & Address of Printer TBD
2. Tele. No. (area code) _____
3. Contact Person _____
4. Estimated Print Run: A _____ + B _____ = C _____
 (A) Conference Registration + (B) Book Broker Purchase = (C) Total
5. IEEE PAYMENT FOR CONFERENCE PUBLICATION SHOULD BE SENT TO:
 Name _____
 Address _____
6. Publication Chairman _____
7. Address _____
8. Tele. No. (area code) _____
 FAX No. (area code) _____
9. Date _____
10. Signature _____

Part C TO BE COMPLETED BY IEEE - DO NOT COMPLETE - INTEROFFICE USE ONLY

1. LC Cat. No. _____
2. IEEE Cat. No. _____
3. ISBN (soft) _____ (case) _____ (fiche) _____
4. ISSN _____
5. Copies Ordered _____
6. Copies Rec'd _____

Please keep a copy for your records



REQUEST FOR CONFERENCE INSURANCE

Regions 1-6
(Conference Held in USA)

Conference Insurance Office
IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
(201) 981-0060 Ext. 5404

The following coverage is in effect for the conference dates listed below. The form must be completed in full and received by the Conference Insurance Office with a list of the conference officers and committee members at least 90 days prior to the start of the conference.

Conference Name SECOND INTERNATIONAL CONFERENCE ON FUZZY SYSTEMS
Conference Dates MARCH 28 - APRIL 1, 1993
Conference Hotel or Center HYATT REGENCY, FIVE EMBARCADERO CENTER
Conference Location (City, State & Zip Code) SAN FRANCISCO, CA 94111

CONFERENCE IS FINANCIALLY CO-SPONSORED: Yes No

Co-Sponsor Name(s): _____

The coverage listed below (except In and Out Robbery) will be furnished to the conference at no direct charge except where additional coverage is requested.

BONDING: \$1,000,000 (\$2500 Deductible)
If more than \$1,000,000 is required, specify amount and attach explanation \$ _____

RENTAL OF EQUIPMENT: \$25,000 (\$250 Deductible)
If more than \$25,000 is required, specify amount and attach explanation \$ _____

LIABILITY & PROPERTY DAMAGE: \$1,000,000 and \$7,000,000 (No Deductible) umbrella liability.

LIMITED VOLUNTEER PERSONAL LIABILITY: \$1,000,000

A list of officer and committee members must accompany Request for Conference Insurance.

IN & OUT ROBBERY: (Optional - check box if desired): \$25,000 (\$2500 Deductible)
Note: There will be an approximate \$100 charge billed directly to the conference.

CONFERENCE WILL CHARTER: Bus Other (explain) N/A
See special note regarding transportation rental.

CERTIFICATE OF INSURANCE

You may be required to furnish evidence of IEEE Insurance to a third party. If so, indicate name and address of third party and their requirements. (Please type or print)

CONFERENCE CHAIRPERSON OR TREASURER - Please type or print the following information and sign this form.

Name ENRIQUE H. RUSPINI
Conference Title GENERAL CHAIRMAN
Address ARTIFICIAL INTELLIGENCE CENTER

SRI INTERNATIONAL
333 RAVENSWOOD AVE., MENLO PARK, CA 94025

Phone No. (415) 959-2314
Signature Enrique Ruspini
Date 10-28-91

FOR OFFICIAL USE ONLY

CONF DATE

Mo.	Date	Yr.

Date Rec'd _____

Date Ack _____

Off&Ctm List _____

Charter Cert _____

IN & OUT ROBBERY

- A&A Inv. Req. _____

- Inv. to Conf. _____

- Check to A&A _____

INSURANCE CLAIM

FILE COMPLETE

(PLEASE MAKE A PHOTOCOPY AND RETAIN FOR YOUR RECORDS)

IEEE Financial Report

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

March 28-April 1, 1993

Hyatt Regency Hotel, Five Embarcadero Center, San Francisco, California

Part I: INCOME

	Qty.	Fee	Budget	Int Rept	Final Rept
<u>REGISTRATION FEES</u>					
MEMBERS					
Registered before 11/2/92	120	\$295.00	\$35,400.00		
Registered before 1/4/93	120	\$345.00	\$41,400.00		
Registered at Conference	240	\$395.00	\$94,800.00		
NONMEMBERS					
Registered before 11/2/92	60	\$395.00	\$23,700.00		
Registered before 1/4/93	30	\$445.00	\$13,350.00		
Registered at Conference	30	\$495.00	\$14,850.00		
STUDENTS					
Registered before 11/2/92	30	\$75.00	\$2,250.00		
Registered before 1/4/93	30	\$85.00	\$2,550.00		
Registered at Conference	60	\$95.00	\$5,700.00		
TOTAL REGISTRATION	720	Total	\$234,000.00		
<u>CONFERENCE SALES</u>					
To members	30	\$50.00	\$1,500.00		
To non-members	30	\$75.00	\$2,250.00		
To IEEE Headquarters	450	\$30.00	\$13,500.00		
TOTAL CONF. SALES	510	Total	\$17,250.00		
<u>EXHIBITS</u>					
Booths/Publishers	5	\$750.00	\$3,750.00		
Booths/All others	30	\$1,095.00	\$32,850.00		
		Total	\$36,600.00		
<u>SOCIAL FUNCTIONS</u>					
Optional Tours (1)					
TOTAL SOCIAL FUNCTIONS			\$0.00		
<u>ALL OTHER</u>					
Tutorial, one only	70	\$225.00	\$15,750.00		
Tutorial	240	\$325.00	\$78,000.00		
TOTAL OTHER INCOME			\$93,750.00		
<u>SEED MONEY ADVANCE</u>			\$40,000.00		
<u>TOTAL INCOME:</u>			\$421,600.00		

Part II: EXPENSES

PROMOTION:

Qty.	Fee	Budget	Int Rept	Final Rept
		\$22,000.00		
		\$5,500.00		
		\$5,500.00		
		\$25,000.00		
		\$7,000.00		
		\$16,500.00		
		\$2,500.00		
		\$8,500.00		

TOTAL PROMOTION \$92,500.00

CONF. PUBLICATION

1300	\$23.00	\$29,900.00		
		\$3,000.00		
		\$1,100.00		

TOTAL PUBLICATIONS \$34,000.00

EXHIBITS

		\$1,650.00		
		\$1,100.00		
		\$3,000.00		
		\$1,100.00		

TOTAL EXHIBITS \$6,850.00

SOCIAL FUNCTIONS

		\$1,500.00		
		\$3,500.00		
		\$1,600.00		
		\$32,000.00		
		\$8,300.00		
		\$23,500.00		

TOTAL SOC. FCTN. EXP. \$70,400.00

ADMINISTRATION

		\$100.00		
		\$8,000.00		
		\$7,500.00		
		\$30,000.00		
		\$2,000.00		
		\$1,400.00		
		\$3,000.00		
		\$2,500.00		
		\$11,000.00		

Registration supplies	\$800.00	
Contingency Fee Provision	\$10,000.00	
Prog. Committee Travel	\$12,000.00	
Chairman's Discr. Budget	\$15,000.00	
TOTAL ADMINISTRATION	\$103,300.00	
<u>ALL OTHER</u>		
Tutorials/Signage	\$1,650.00	
Tutorials/Notebooks (2)	\$7,300.00	
Tutorials/Audiovisual	\$1,500.00	
Tutorials/Honor./ Expenses	\$11,000.00	
Invited Speakers Expenses	\$10,000.00	
Audit	\$5,000.00	
Voluntary Help Expenses	\$5,000.00	
TOTAL OTHER EXPENSES	\$41,450.00	
<u>TOTAL EXPENSES</u>	\$348,500.00	
<u>LOAN REPAYMENT</u>	\$40,000.00	
<u>TOTAL OUTLAYS</u>	\$388,500.00	
<u>SURPLUS (LOSS)</u>	\$33,100.00	

NOTES:

- (1) Nonbudget item (To be offered separately)
- (2) IEEE Press Estimate (Ann Burgmeier)

Part III: SUMMARY**INCOME**

	Budget	Int Rept	Final Rept
6. Registration Fees	\$234,000.00		
7. Conf. Pub. Sales	\$17,250.00		
8. Exhibits	\$36,600.00		
9. Social Functions	\$0.00		
10. All other conf. receipts	\$93,750.00		
11. Total conference income	\$381,600.00		
12. Advance loans	\$40,000.00		
13. Total receipts	\$421,600.00		

EXPENSE

14. Promotion	\$92,500.00		
15. Conference Publications	\$34,000.00		
16. Exhibits	\$6,850.00		
17. Social functions	\$70,400.00		
18. Administration	\$103,300.00		
19. All other conf. expenses	\$41,450.00		
20. Total Conference Expenses	\$348,500.00		
21. Loan Repayments	\$40,000.00		
22. Total outlays	\$388,500.00		
23. Total receipts	\$421,600.00		
24. Total outlays	\$388,500.00		
25. SURPLUS(LOSS)	\$33,100.00		

Second IEEE International Conference on Fuzzy Systems (FUZZ-IEEE'93)

Participating Societies:

Letters requesting involvement at the cooperating level have been sent to officers of the following societies:

IEEE Communications Society
IEEE Industrial Electronics Society
IEEE Control Society
IEEE Laser and Electro-Optics Society
IEEE Industrial Applications Society
IEEE Computer Society
IEEE Systems, Man, and Cybernetics Society
International Fuzzy Systems Association
North American Fuzzy Information Processing Society
Japan Society for Fuzzy Theory and Systems
IEEE San Francisco Bay Area Council

**Second International Conference on Fuzzy Systems
San Francisco, California, March 28 – April 1, 1993**

Conference Organizing Committee

General Chairman:

Dr. Enrique H. Ruspini
Artificial Intelligence Center
SRI International
333 Ravenswood Avenue
Menlo Park CA 94025
Tel.: [415] 859-2314 FAX: [415] 859-3735
E-Mail: ruspini@ai.sri.com

Technical Program Chairman:

Dr. Piero P. Bonissone
General Electric Corporate Research and Development
Building K-1, Room 5C32A
1 River Road
Schenectady NY 12301
Tel.: [518] 387-5155 FAX: [518] 387-6845
E-Mail: bonissone@crd.ge.com

Finance Committee:

Dr. Richard Tong (Chairman)
Advanced Decision Systems
1500 Plymouth Street
Mountain View CA 94043-1230
Tel.: [415] 960-7300 FAX: [415] 960-7500
E-Mail: rtong@ads.com

Prof. Roy S. Nutter
821 Electrical Engineering
University of West Virginia
Morgantown WV 26506
Tel.: [304] 293-6371 X510 FAX: [304] 293-5024
E-Mail: rsn@a.coe.wvu.wvnet.edu

Publicity Committee:

Dr. Hamid Berenji (Chairman)
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Bruce D'Ambrosio
Department of Computer Science
Oregon State University
Corvallis OR 97331
E-Mail: dambrosio@cs.orst.edu

Prof. Ramón López de Mántaras
Centro de Estudios Avanzados
CSIC
Cami de Santa Bàrbara
17300 Blanes, Girona, SPAIN
Tel.: [34] 72- 33 61 01
E-Mail: mantaras@ceab.es

Tutorials Committee:

Prof. James C. Bezdek (Chairman)
Computer Science Department
University of West Florida
Pensacola FL 32514
Tel.: [904] 474-2784
E-Mail: jbezdek@uwf.bitnet

Dr. Hamid Berenji
Artificial Intelligence Research Branch
NASA Ames Research Center
MS 244-17
Moffet Field CA 94035
Tel.: [415] 604-6070
E-Mail: berenji@ptolemy.arc.nasa.gov

Prof. Hiroyuki Watanabe
Department of Computer Science
University of North Carolina
CB # 3175 - Sitterson Hall
Chapell Hill NC 27599
Tel.: [919] 962-1817 FAX: [919] 962-1799

Exhibits Committee:

Dr. Masaki Togai (Cochairman)
Togai Infralogic
5 Vanderbilt
Irvine CA 92718
Tel.: [714] 975-8522

Dr. Wei Xu (Cochairman)
Apronix Inc.
2150 North First Street, Suite 300
San Jose CA 95131
Tel.: [408] 428-1888 FAX: [408] 428-1884

Prof. Takeshi Yamakawa (Cochairman)
Faculty of Computer Science and Systems Engineering
Kyushu Institute of Technology
Kawazu 680-4
Iizuka, Fukuoka, JAPAN
Tel.: [81] 948-27-7712 FAX: [81] 948-28-5582

Prof. Llorenç Valverde (Cochairman)
Departamento de Matemática e Informática
Universitat de les Illes Balears
Ctra. de Valldemossa, Km. 7.5
07071 PALMA - MALLORCA, SPAIN
Tel.: [34] 17 32 44
E-Mail: dmilvg@cc.uib.es

Local Arrangements Committee:

Prof. Sergei Ovchinnikov
Department of Mathematics
San Francisco State University
San Francisco CA
Tel.: [415] 469-1387

TAB 14

TAB 15



Department of Electrical and Computer Engineering

West Virginia University

July 15, 1991

Prof. Toshio Fukuda
Dept. of Mech. Eng., Nagoya Univ.
Furo-cho, Chikusa-ku, Nagoya 464-01
JAPAN

RE: Approval of IJCNN'93 - Nagoya, Japan July 12, 1991

As the chairman of IOC, I am pleased to inform you that your proposal of IJCNN'93 - Nagoya, Japan, Oct. 25-29, 1991 was formally approved by IOC, including the preliminary budget.

You can work with Prof. S. Amari together as "General Co-Chair". Since IEEE is a lead society of the conference, you are responsible entirely for the planning and operation of the conference even though you share the conference chairman job with him. You are the steering committee chair, Prof. Amari is the organizing committee chair. Thus the organizing committee chair must consult with you at any stage.

Under your strong leadership, you must form the program committee, finance committee, publicity committee, publication committee, tutorial committee, exhibition committee, local arrangement committee, and other committees if necessary. You must/can follow the IEEE guideline as a reference. It is the job of the steering committee chairman to make sure that you appoint a good program chair/co-chair under your control so that the program chair/co-chair should follow the advice and instructions of the steering committee chair. It is the same for other committees also.

Please submit the detailed budget of the conference to the next IOC meeting. Please let me know if you have any comments or need assistance.

Sincerely,

A handwritten signature in cursive script that reads "Roy S. Nutter".

Prof. Roy S. Nutter
IOC Chairman

cc: Bob Marks, President of IEEE NNC
Paul Werbos, President of INNS

University of Tokyo
Faculty of Engineering
Department of Mathematical Engineering and Information Physics
Bunkyo-ku, Tokyo 113, Japan

September 6, 1991

Prof. Robert J. Marks, II
President of the IEEE NNC
Electrical Engineering
University of Washington
Mail Stop FT-10,
Seattle,, Washington, 98195
U. S. A.

Dear Professor Marks, II :

I am now going to establish the Organizing Committee of the IJCNN'93-Nagoya together with Prof. T. Fukuda, who is to be the chairman of the Steering Committee.

Before the start, I would like to make things clear, which we have already agreed to and which I believe have also been discussed at IOC.

The IJCNN'93-Nagoya will be cosponsored by the IEEE NNC (lead Society), INNS, and a number of Japanese societies, namely JNNS (Japanese lead Society), IEICE, SICE, in addition to non-academic societies Nagoya City, Aichi Prefecture, and Sanken Foundation. The latter three are newly added for financial matters to go smoothly, following to Fukuda's request. The IEEE NNC, INNS and Japanese group have each equal 1/3 responsibility for any surplus or deficit of the Conference.

The Organizing Committee which I will chair is responsible for deciding fundamental principles and policies of the Conference. The Committee will form the Steering Committee chaired by T. Fukuda and the Program Committee chaired by K. Fukushima and B. Marks, II. The steering committee is responsible for substantiation and execution of the policies decided by the organizing committee. It consists of a number of subcommittees. The program committee is one of the subcommittees, but it is directly responsible for all academic events.

If you have any questions or comments, I would appreciate receiving them as soon as possible, before the initiation of the Organizing Committee which is scheduled to start on the 15th October 1991.

Sincerely yours,



Shun-ichi Amari

SA/yh

cc: T. Fukuda (Steering Chair)
Roy Nutter (IOC Chair)
P. Werbos (INNS President)
K. Fukushima (JNNS President)

TAB 16

UNIVERSITY OF WASHINGTON
SEATTLE, WASHINGTON 98195

Department of Electrical Engineering, FT-10
Telephone: (206) 543-2150
FAX: (206) 543-3842

October 3, 1991

Professor Robert J. Marks II
President
IEEE Neural Networks Council
Department of Electrical Engineering
University of Washington

Dear Bob:

March 28th June Oct 25
Apr 15th

Thank you for your letter of July 25th informing us of the Council's approval of our proposal for the *Forum on Applications of Artificial Neural Network Technology to Electromagnetic Inverse Problems and Remote Sensing* contingent on moving the date of the meeting to avoid conflict with Neural Network Society conferences. We are therefore moving the meeting date to March 15-18, 1993. Would you please verify that this date is acceptable to the NNC. As soon as we receive approval, we plan to move forward with our preparations for the forum.

Sincerely,



Akira Ishimaru
Professor

AI/nh

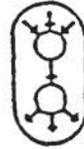
cc: Conference Committee:
C. H. Chan
J. N. Hwang
T. A. Seliga
L. Tsang

TAB 17



IEEE

NEURAL NETWORKS COUNCIL



Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

October 25, 1991

Yasuo Tamura, Professor
ANNPS '93 General Chairman
Department of Electrical Engineering
Waseda University
3-4-1 Shinjuku-ku, Tokyo 160
Japan

Dear Dr. Tamura:

Thank you for your recent letter requesting involvement of the IEEE Neural Networks Council in the Second Annual International Forum on Applications of Neural Networks to Power Systems. I have forwarded your request to the NNC Meetings Committee Chair, Dr. Roy Nutter, for consideration.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair
M. A. El-Sharkawi
NNC ExCom

**SECOND INTERNATIONAL FORUM ON
APPLICATIONS OF NEURAL NETWORKS TO POWER SYSTEMS**

April 19-22, 1993

Yokohama, Japan

October 10, 1991

Prof. Robert J. Marks II
President
IEEE Neural Network Council
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 981295
U.S.A.

**Re: Participation of IEEE Neural Network Council in Second International Forum on
Applications of Neural Networks to Power Systems (ANNPS '93)**

Dear Prof. Marks:

We are organizing the Second International Forum on Applications of Neural Networks to Power Systems to be held in Yokohama, Japan, April 19-22, 1993. We need your help. I heard from Dr. H. Mori, Meiji University, Japan, that, as the president of IEEE Neural Network Council, you intended to support the forum. He said that you had an intention that the IEEE Neural Network Council would give a help to the forum as the participation. I would appreciate it very much if the Neural Network Council could participate the forum. I am looking forward to hearing from you by FAX. My Fax Number is as follows:

Fax. No.: +81-3-3205-2615

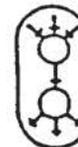
Thank you for your hearty support.

Sincerely yours,



Yasuo Tamura, Professor
ANNPS '93 General Chairman
Department of Electrical Engineering
Waseda University
3-4-1 Shinjuku-ku, Tokyo 160
Japan

TAB 18



NEURAL NETWORKS COUNCIL

Robert J. Marks II
Past President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98198 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
Fax: (206) 543-3842
e-mail: marks@milton.u.washington.edu

October 25, 1991

Dr. W. S. Gan
Acoustical Services PTE. LTD.
209-212 Innovation Centre
Nanyang Crescent
Singapore 2263

Dear Dr. Gan:

Thank you for your recent letter requesting involvement of the IEEE Neural Networks Council in the International Conference on the Application of Neural Networks to Signal Processing in Singapore in March 1993.

I have forwarded your letter to R. S. Nutter, Neural Networks Council Meetings Chair, for his consideration. The NNC should provide a response to your request by December 15.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

cc: Roy S. Nutter, NNC Meetings Chair

A handwritten signature in cursive that reads 'R. Eberhart'.

15 October 1991

Prof. Robert I. Marks
President
Neural Networks Council
Interactive System Design
Laboratory
Dept. of Electrical Engineering
University of Washington
Seattle, WA 98195
USA

Fax NO.005 1206 5433840

Dear Prof. Marks,

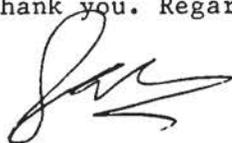
I am the Chairman of the Signal Processing chapter, IEEE Singapore section. Our Chapter is planning to organize an International Conference on the Application of Neural Networks to Signal Processing in Singapore in March 1993.

We intered to apply fo the sponsorship and approval of the Neural Networks Council for organizing this conference.

Please find enclosed herewith a copy of my buget estimate. Hoping your kind Considerations.

Please fax reply to me asap. Our fax no is (65) 7913665.

Thank you. Regards



Dr. W.S.Gan

P.S. Please confirm whether your fax no is 005-1-206-5433840.
We find it difficult to get through!

Number of Delegates: 100 (80 IEEE Members and Non- IEEE Members)
 (All in US\$)

Income

Registration Fees (\$325 for IEEE Members and \$340 for Non- IEEE Members)	32,800	
	5,900	
Publication Sales		38,700

Total Receipts

Expenses

Promotional:		530	
Printing CFP	1,480		
Printing Adv Program	710		
Printing Final Program	300		
Mailing Labels from IEEE	530		
Mailing CFP	1,060		
Mailing Adv Program	710		
Advertising			5,370

Conference Publications:

Printing of author's kit	120		
Mailing of author's kit	590		
Printing of Proceedings	3,550		
Shipping costs	890		5,150

Administrative

Management Fee for Conference and Exhibition (\$24 per delegate)	2,370		
Stationary	150		
Telecommunications	150		
AV equipment rental	590		
Committee expenses (meeting airfare etc.)	2,660		
Insurance	590		6,510

Local Arrangements:

Conference Venue (Lunch and teas)	11,740		
Banquet	3,040		
Exhibition	1,420		16,200

Total Expenses

33,180

SURPLUS=38,700 - 33,180
 = 5,520

Hence the breakeven point is about 100 delegates.

Budget For 1st International Conference On The Application of
Neutral Network(All in U\$)

NUmber of Delegates: 300 (200 IEEE Members and 100 Non -IEEE Members)

Income

Registration Fees

(\$325 for IEEE Members and

\$340for Non-IEE Members)

99,000

5,900

Publication Sales

Total Receipts

104,900

Expenses

Promotional:

Printing CFP

530

Printing Adv Program

1,480

Printing Final Program

710

Mailing Labels from IEEE

290

Mailing CFP

530

Mailing Adv Program

1,060

Advertising

710

5,310

Conference Publications:

Printing of auther's kit

120

Mailing of auther's kit

590

Printing of Proceedings

10,650

Shipping costs

890

12,250

Administrative:

Managment Fee For Conference
and Exhibition (\$24 per delegrate)

7,100

Stationary

150

Telecommunications

150

AV equipment rental

590

Committee expenses
(meeting airface etc.)

2,660

Insurance

590

11,240

Local Arrangements:

Conference Venue

35,200

(Lunch and 2 teas)

9,100

Banquet

1,420

Exhibition

45,720

TOTAL EXPENSES

74,520

SURPLUS = 104,900 - 74,520

= 30,380

TAB 19

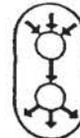
- To replace the conference involvement type of Participation with:

Technical Co-Sponsorship indicates significant shared involvement in the organization of the technical program, assisting with publicity and encouraging members to submit papers and attend the conference. Such conferences are entitled to IEEE services at the non-profit rate. Such conferences are obligated, when requested, to make available to IEEE copies of their conference records (proceedings) for post conference sale for which it will be reimbursed in the same manner as IEEE sponsored conferences.

TAB 20



IEEE



NEURAL NETWORKS COUNCIL

Robert J. Marks II
President

PLEASE REPLY TO:
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10

University of Washington
Seattle, WA 98195 USA
Tel: (206) 543-6990 (O)
Tel: (206) 776-8995 (H)
FAX: (206) 543-3842
e-mail: marks@blake.acs.washington.edu

September 17, 1991

Perry Sensi
IEEE
P. O. Box 1331
Piscataway, New Jersey 08855-1331

Dear Perry:

I would appreciate any comments you have on the attached contract. We will be reviewing it at the November 18 meeting of our ExCom.

Sincerely,

Robert J. Marks II, President
Neural Networks Council

Attachment

C: ExCom

R. Eberhart, President-elect
P. Simpson, Vice President-elect
E. Tzanakou, Secretary
M. Roth, Editor-in-Chief

5665 oberlin drive
suite 110
san diego
california
92121

1991 IEEE Neural Networks Council Document
Robert J. Marks II Library Archive
consultants
and coordinators
conventions
meetings
conferences
symposia

(619)
453-6222
fax (619)
535-3880

m e e t i n g m a n a g e m e n t

September 5, 1991

Robert J. Marks, President
IEEE Neural Networks Council
Interactive Systems Design Laboratory
Department of Electrical Engineering, FT-10
University of Washington
Seattle, WA 98195

Dear Dr. Marks,

The following services will be provided by Meeting Management for the **1994 World Congress on Intelligent Systems**, which will include ICNN International Conference on Neural Networks, Fuzz-IEEE and Genetic Algorithms. The Congress will be held July 16-23, 1994, in Washington, D.C.

A. Site Selection

1. Select appropriate space for the Conference, with particular attention to meeting space, exhibit and poster area, sleeping accommodations and comfortable ambiance.
2. Negotiate best possible price for Conference and for registrants.

B. Advance Planning

1. Work with Program Chairs to develop timetable of dates and deadlines.
2. Work with the Program Committees to develop the meeting program format, its timing for publication and promotion, and coordinate the groups involved with the facilities available.

C. Conference Headquarters

1. Serve as secretariat address and office for the conference, before, during and after the meeting throughout the year.
2. Act as clearing center for all correspondence, telephone inquiries, registration, income/expenses, receipts, forms, etc.

D. Travel Arrangements

Negotiate with airlines for best price and service to the destination city. Arrange for complimentary flights for the speakers, if available.

E. Program Coordination

1. Coordinate with committees on design of special room arrangements for each session.
2. Contact speakers and session chairs to determine their specific audio-visual requirements and to communicate specific program instructions.
3. Arrange for audio-visual equipment and projectionists for all scientific sessions in accordance with each speaker's requirements.

F. Design and Printing

1. Receive program copy from Program Chairs. Assist in preparation of general copy and supervise printing for preliminary mailings.
2. Arrange for typesetting, graphic design, layout and printing of announcements.
3. Prepare and print advance registration cards and hotel reservation forms to be included in mailings.
4. Assist in the preparation of general copy and supervise printing of the Final Meeting Program.
5. Design, prepare copy and print final program, exhibit program, badges, tickets for the tutorials and social functions, signs, special information material, and conference packets, subject to approval of Committee.

F. Design and Printing (continued)

6. Arrange and supervise printing of Proceedings. Camera-ready papers will be provided by presenters. Type-setting of cover, table of contents and pagination will be arranged by Meeting Management according to IEEE requirements.

G. Mailings

Handle all arrangements for mailings. Negotiate with mailing house for best price and service. Supervise completion of mailings.

H. Mailing Lists

Select best sources of mailing lists with guidance of Chairs.

I. Journals

Place announcements and advertisements in relevant journals. Send announcements to secretaries of societies. List of Journals to be provided by Chair.

J. Technical and Scientific Exhibits

1. Assist Exhibit Chair with solicitation of exhibitors.
2. Handle all arrangements for exhibitors, including designation of space, formation of booths, decorations, drayage, et al.
3. Communicate with exhibitors regarding booth location, exhibit fees, exhibitor packets, name badges and designation of representatives for attendance to conference.

K. Proceedings

1. Receive abstracts/papers and forward to Program Chair for review. Process and log papers.
2. Send abstracts/papers to reviewers as indicated by Program Chair. Coordinate the review process.
3. Receive accepted or rejected abstracts from reviewers.

K. Proceedings (continued)

4. Send letters of acceptance or rejection to authors.
5. Prepare Proceedings for printing. Provide table of contents, author index, pagination and prepare Proceedings for printing.
6. Select printer and publisher on basis of competitive bids. Supervise publication and shipping to Conference site and appropriate number to IEEE headquarters.

L. Poster Sessions

1. Notify authors of day, time and location of their presentation, and send them instructions for the format of the posters.
2. Map the poster session area and obtain appropriate numbers of poster boards.
3. Provide poster numbers and necessary supplies.
4. Monitor poster sessions throughout the meeting.

M. Advance Registration

1. Develop systems and procedures for receipt and processing of advance registration forms.
2. Maintain accurate financial records of all advance registration income.
3. Prepare receipts, badges and packets for all registrants. Issue ribbons as appropriate.
4. Respond to requests for forms and information.

N. Meeting Site Arrangements

1. Reconfirm adequate meeting space with hotel.
2. Coordinate program elements and instruct hotel staff regarding exact floor layout, anticipated attendance, audio-visual equipment, signs and all other meeting requirements.

N. Meeting Site Arrangements (continued)

3. Arrange for sleeping rooms for VIP and speakers.
4. Arrange catering functions - determine per plate costs, plan menu and coordinate all catering activities.
5. Supervise performance of hotel personnel during entire conference.

O. Registration

1. Type badge for each current registrant and insert in badge cover.
2. Prepare information packet for each attendee which will contain badge, final program, exhibit guide, city information and any other material deemed appropriate.
3. Hire registrars, cashiers and typists for registration desks to distribute Conference packets to advance registrants, all exhibitors, and to process on-site registrants.
4. Provide city information and general hospitality service to registrants.
5. Provide message center.

P. On-Site Conference Management

1. Staff registration desks during the entire period of the conference.
2. Supervise the performance of the hotel during the entire duration of the meeting and resolve any problems arising during the conferences.
3. Supervise set-up and arrangements of booth set-up for the exhibitors.
4. Serve as a coordination point for Conference personnel. Organize, maintain and administer on-site Conference office.

P. On-Site Conference Management (continued)

5. Inspect meeting room set-up daily to verify that it is properly prepared in accordance with specifications.
6. Hire security guards and supervise their activities on site.
7. Work with local tour operators on social programs, if desired.
8. Display up-to-date lists of registrants and their affiliations.

Q. Social Events

Arrange for adequate space, transportation, guest lists, invitations, reservations, menus, guarantees, flowers, decorations, ticketing, overall coordination for events as scheduled.

R. Fiscal Responsibility

1. Assist Treasurer with preparation of conference budget.
2. Receive and deposit advance, current registration fees, tutorial fees and exhibit fees in a special bank account.
3. Deposit contributions, exhibit fees and Proceedings fees.
4. Approve bills for items ordered by Meeting Management.
5. Provide final report showing:
 - a. The number of participants registered and amount of registration fees received and outstanding.
 - b. Number of participants registered for the tutorials, amount of tutorials fees received and amount outstanding.
 - c. Number of exhibitors and fees received for exhibit booths.
 - d. Detailed account of all other income.

R. Fiscal Responsibility (continued)

- e. An accounting of all bills paid by Meeting Management listed by category as indicated in the budget.

S. Post Conference Activities

1. Maintain office address on a year-round basis for late mail, inquiries, etc.
2. Save records for use for following year.

Compensation

The fee for the services listed in this proposal shall be as follows:

ICNN:

\$43,000 for the first 1500 registrants and \$24 for each registrant above 1500.

Fuzz-IEEE:

\$22,000 for the first 700 registrants and \$24 for each registrant above 700.

Genetic Algorithms:

\$12,000 for the first 300 registrants and \$24 for each registrant above 300.

These amounts will be reduced by the hotel room commissions received by Meeting Management. An advance of \$10,000 shall be paid by July 1992, and an additional \$15,000 shall be paid by July 1993 with the remainder to be paid at the conclusion of the Conference, July 1994.

Agency

It is understood that the relationship created is one of agent and principal and it is not intended, nor shall it be construed, to be joint venture with respect to the Conference. As your agent, I shall be empowered to make such contractual arrangements as are required to provide the services set forth above. You will indemnify your agent and hold it harmless against any and all damages, liabilities or causes of action, including reasonable attorneys' fees, incurred or arising through or proximately resulting from the faithful performance of its duties herein.

Liabilities

All expenses and liabilities incurred in the performance of the services set forth above including, but not limited to, printing, mailings, telephone services, employee wages shall be paid by the Conference. While it is anticipated that the Conference will break even, nothing herein contained shall be construed as a guarantee. Should the expenses exceed the income, IEEE and the Council on Neural Networks will be expected to pay the excess.

Form of Agreement

This agreement constitutes the entire agreement between the parties pertaining to the subject matter contained in it and supersedes all prior or contemporaneous agreements, representations, modifications and understandings of the parties. Any supplements, modifications or amendments of the agreement will be binding only if executed in writing by all of the parties hereto.

Terms approved and agreed to:

Robert J. Marks, II
President, IEEE Neural Networks Council

Date

Nomi Feldman

Nomi Feldman
President, Meeting Management

9/5/91

Date

TAB 21



IEEE

TECHNICAL ACTIVITIES BOARD

Harold S. Goldberg, P.E.
TAB TREASURER

PLEASE REPLY TO:
10 Alcott Road
Lexington, MA 02173 USA
Tel: (617) 862-9262
Fax: (617) 246-2787
E-mail: h. goldberg

TO: TAB
FROM: Harold S. Goldberg, Treasurer
DATE: October 6, 1991 *HSG*
SUBJECT: Report of Chairman of Finance Committee

On September 25, 1991, the TAB Finance Committee met in Piscataway. This is a report on the results of that meeting which should be of interest to TAB.

1. The Treasurer's budget report was reviewed and the financial history and fiscal recommendations were discussed. It was agreed that the contents of this report and the recommendations therein should be presented to TAB.

2. A proposed graphical method of monitoring financial operation and of presenting it to the TAB Council Chairmen and others, when necessary, was demonstrated to the Finance committee members. These budgets would include each of the TAB cost centers. (i.e.. Conference Services, Councils, Director Support, etc.) The Finance Committee approved the use of graphs to monitor the activities of TAB. In addition, in the future, each of the responsible people, such as Council Chairmen, are to be provided advance copies of their budgets for review and modification, in a timely manner.

3. The Committee reviewed a proposal from the Neural Networks Council for a new publication, the "Transactions on Fuzzy Systems", to begin in 1993. The committee discussed the proposal with Robert Marks, President of NNC, and James Bezdek, principal author of the proposal, via a conference telephone call. After a financial review of the proposal the Finance Committee approved the financial aspects of the Transactions and voted to send their endorsement to the Periodicals Council and the Publications Board.

4. The Committee reviewed the procedure to be used to approve the S/C budgets for TAB prior to submission to the IEEE Execu-

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

TAB 27

NNC MEETINGS COMMITTEE July 7, 1991, at IJCNN, Seattle, WA

The meeting was called to order at 6:10 PM by Roy Nutter, Chair. Members introduced themselves: Roy Nutter, Chair; Russ Eberhart; Irv Engelson; Walter Karplus; Tong-Heng Lee; Bob Marks; Troy Nagle; Bob Newcomb*; Enrique H. Ruspini; Pat Simpson (*Identifies voting member) Nomi Feldman and Ellen Casey (both from Meeting Management), Ruth Wagner (Minutes recorder)

The proposed agenda was adopted with additions: under Old Business - a meeting in San Diego and under New Business - Volunteers/Budgeting and Proceedings.

With the correction of the spelling of Fukuda, the minutes of the January 26, 1991 meeting were approved.

OLD BUSINESS

Simpson, Treasurer, reported that he had received \$2,000+ from Nick DeClaris for the IJCNN-89. This has been deposited in the NNC fund and this conference is now completed. IJCNN-90 - INNS will provide a document that will serve as an audit to Simpson. A list of expenditures will be drawn up and then a check cut to close out the conference. IJCNN-90 - A check was received in the amount of \$5,000 although the audit report says \$7,300. A copy of the audit from the previous year had been copied. **MOTION:** (Simpson to) Request auditor to send a correction to the audit. **PASSED**

Discussion followed on the split that the San Diego chapter has received in the past and should receive for future meetings. It was suggested that an agreement include what that chapter will do for the conference.

Troy Nagle presented the history from 1987 forward attempting to reach an agreement for a split with the San Diego Chapter, INNS, and NNC. A draft had been drawn up with San Diego to receive 30%, INNS 50%, and NNC 20%. In addition the meeting was to rotate location being in San Diego every other or every third year giving San Diego an average sponsorship of 10 to 15%. Also tutorial speaker fees were to be scaled down in successive years to get down to a range which IEEE societies will find acceptable. The proposed agreement was never distributed for signatures. However, Nagle urged the committee to enter into a new negotiation with the San Diego Section and come forward with some agreement that would fulfill the spirit of the understanding that had been developed in 1988.

Discussion followed and then a proposal was read from the San Diego Chapter. They want to co-sponsor IJCNN '94. As this is already in the planning stage, they cannot sponsor this particular meeting. However, the question is how to proceed so that all are satisfied. Chairman Nutter felt that he or Marks should compose letter to San Diego section stating that there is no formal agreement, NNC recognizes that discussions attempting to form such an agreement in the past occurred but it was never consummated but we would like to explore future conference possibilities with you. Starting over fresh.

There have been problems in 3 out of 4 conferences in San Diego. It was strongly felt that the chapter should be asked to specify what type of help they will provide if and when they co-sponsor a

conference. Conferences are currently scheduled through '94. Discussions with them could begin for 1995 or 1996. There are other IEEE conferences in San Diego which they could work on to make sure they know how the system works. Possibly they could work with Jim Bezdek on FUZZ-EE '93. That would have to be his decision.

ACTION: Nutter will take a letter to AdCom in response to the San Diego proposal, there is no formal agreement. We recognize that there have been discussions in the past to form such an agreement but it has never been consummated. We, thus, would like to discuss future conference possibilities with you.

Seattle IJCNN '91 - 1100+ preregistered. They need to get preliminary audit turned in within 90 days. Tutorial attendance dropping. Singapore will have new and different tutorial presenters. Fee structure @ \$195 is pricing itself out of the market. Many tutorials are now going for \$100 or \$125 for 2 hours.

Ed Rosenfeld introduced himself: publishes a newsletter called INTELLIGENCE. His concern is about the supplemental posters and whether it would be possible to publish the papers that are included in the poster sessions at IJCNN'91-Seattle. It was said that they cannot be presented as a subset of formal papers presented at an IEEE conference, however, NNC could publish a volume of papers. Rosenfeld would want to acknowledge somewhere that the papers had been presented at IJCNN. IEEE Press is being used so they hold the copyrights. He is free to proceed independently (not using IEEE or IJCNN logos).

INNS had come forward with the proposal to publish abstracts. ExCom rejected the proposal and countered with a proposal where the other papers would be published in full - estimated at \$13,000. That was the option NNC wanted to pursue. They had not considered it could be done unilaterally but it could.

IJCNN-Singapore: Teck Seng Low is General Chairman, Russ Eberhart is Vice Chairman. Toshio Fukuda is Program Chair. 512 papers collected in US, Japan, Singapore. Acceptances are to be mailed out around August 31. Ads have been taken in a variety of publications, others are free. Budget submitted last year, but still waiting for it to come through. Seed money is coming from IEEE and they are also getting some from Singapore from the National Science and Technology Board. Site: Westin Center, twice as large as Seattle Conference Center. Vendors will be people dealing with NN products, perhaps local agents using NN.

Letter from H. White dated October 31, 1990, a plenary speaker at San Diego '90, submitting \$523 in expenses. The books were closed in August, 1990.

ACTION: Send a letter stating that preparation expenses are not covered unless he has an agreement in writing stating otherwise.

MOTION: Meetings Committee recommends to AdCom that NNC make a policy of not reimbursing plenary speakers costs. PASSED

MOTION: Previous motion is retroactive unless there is a prior written commitment from the Conference Chairman from IJCNN. PASSED.

FUZZ-EE '92 - March 8-12, 1992 - **MOTION:** Budget for FUZZ-EEE '92 be presented to AdCom for approval as approved by the Meetings Committee. Discussion took place on fee paid for tutorials and travel expenses. PASSED.

MOTION: Tutorial speakers should be offered \$1,000 honorarium for a 4-hour tutorial excluding travel expenses and lodging. PASSED.

MOTION: For the tutorial speakers for the FUZZ-EE '92 meeting, the honorarium shall be \$1,000 for 4-hours plus necessary and ordinary travel and lodging expenses exclusive of registration. PASSED.

MOTION: Approve budget for Baltimore. (See 2 attachments) Passed.

MOTION: Use 1400 people as "best guess estimate" for attendance. Passed.

IJCNN '92 - Beijing - appears that Prof. Amari and Isui are co-chair. Robert Marks and Russ Eberhart are to interact with INNS. FUZZ-EE'93 - In consultation with Nomi Feldman, Chair Nutter recommends San Francisco as the location. Using 700 to 1,000 participants, rather than a higher number, opens hotel locations other than those presented with pre-meeting materials.

FUZZ-IEEE '93 - **MOTION:** Dr. Ruspini be appointed chair of FUZZ-IEEE - '93. PASSED. Location to be San Francisco. Timing to be determined. 700-1,000 anticipated attendees. Comment regarding Japanese timing by Dr. Fukuda: February is a bad time for university personnel and March is bad for industry. After the middle or late March and early April would be preferable. Permission given to Feldman to tell the hotel to generate a contract. PASSED.

IJCNN '93 - Portland - George Lendaris is chair, will have a budget forth coming soon.

IJCNN '93 - Nagoya - need to change date to October 25-29 due to conflict for hotel reservations. **MOTION:** The date for Nagoya be changed to October 25-29, 1993. PASSED. Suggestion that a variety of countries be represented on the program committee.

NEW BUSINESS

Discussion of a 1994 IEEE World Congress on Intelligent Systems has been taking place; some see a combination of a FUZZY Systems Conference and a Neural Networks Conference at the same place but in sequence. Also place as addenda some smaller forums possibly in area of genetic algorithms, some newly emerging technologies that fall in the scope of the council. At the direction of ExCom, Feldman has investigated the Washington, DC area for hotel space. It was recommended to stay away from the Washington Hilton due to extremely poor management in the past. Feldman presented two possibilities for scheduling, a 12-day or an eight-day time frame. (See attached)

MOTION: That the schedule be held to that presented on the second page (an eight-day schedule). PASSED. Feldman expressed concern that hotel space should be negotiated by the end of August or the hold will have to be relinquished. The idea is to register for either with registration for both being the best offer. PASSED.

MOTION: Bob Marks be asked to be the Congress Chair. PASSED.

AGENDA ITEM NEXT MTG: Congress Chair to bring suggestions for Conference Chairs for the IEEE World Congress on Intelligent Systems. Dates: Preference late June at the Sheraton, earlier in summer but not sooner than June 15. With no other space, the proposed space will be used (see attachment) Signature for hotel contract: after appropriate arrangements Feldman was given authority to say the space should be on hold.

NNC MEETINGS COMMITTEE (Preliminary) AGENDA
July 7, 1991
@IJCNN-Seattle

GREETINGS

AGENDA, Adoption of

MINUTES, Approval of last

OLD BUSINESS

San Diego added

IJCNN-90	DC	Audit Status	:Simpson
IJCNN-91	Seattle	Status	
IJCNN-91	Singapore	Budget	:Simpson
FUZZ-IEEE '92	San Diego	Budget (Tab 21, Blue Book)	
IJCNN-92	Baltimore	New Budget?	
IJCNN-92	Beijing	Status?	
FUZZ-IEEE '93	San Francisco	Location?	
		Chair= Ruspini?	
		Budget?	
IJCNN-93	Portland	Chair= Lendaris?	
		Budget?	
IJCNN-93	Nagoya, Japan	Status Update?	

NEW BUSINESS

1994 WORLD CONGRESS on Intelligent Systems		:Marks
	DC? Officers? (Tab 20)	
Cooperate? :	Intelligent Vehicles-'92 (Tab 22)	:Marks
Cooperate? :	Russian '92 (Tab-23)	:Marks

FORUM PROPOSALS (Tab 19):

Symp on Combining Genetic Alg & NN	UVa
Applications of ANN to E&M Inverse ...	UWash

Volunteers / Budgeting and Proceedings
INFORMATIONAL ITEMS

Conference Service of IEEE	(Tab 24)	: Marks
IEEE CONNOE	(Tab 25)	: Marks

OTHER BUSINESS

ADJOURN

Meetings Committee
1/26/91 9:30 am
@ Sheraton Inner Harbor, Baltimore, MD

Present:

Name	Work Phone	Fax &/or e-mail
Bezdek, Jim	904-474-2784	904-474-3023 jbezdek@uwf.bitnet
Brown, Donald E.	804-924-5393	804-982-2972 deb@virginia.edu
Dickinson, Bradley	609-258-4644	609-258-3745 bradley@princeton.edu
Eberhart, Russell	301-953-5037	301-953-1093 RCE1@APLVM.BITNET
Fukuda, Toshio	81-52-781-5111 ext 4478	81-52-782-3790 d43131a@nucc.cc.nagey a-u.ac.jp
Karplus, Walter	213-825-2929	213-825-2273 karplus@cs.ucla.edu
Kartalopoulos, Stamatios	201-386-4289	201-386-6346
Lau, Clifford	703-696-4961	703-696-3945 clau@a.isi.edu
Marks, Bob	206-543-6990	206-543-3842 marks@blake.u.washing ton.edu
Newcomb, Bob	301-405-3662	newcomb@sparcee.eng.u md.edu
Nutter, Roy	304-293-6371	304-293-5024 rsn@coe.wvu.wvnet.edu
Roth, Mike	301-792-6543	301-953-1093 mwr@aplcomm.jhuapl.ed u
Simpson, Pat	619-573-2417	619-573-7400 or 2266
Snyder, Wes	919-748-3908	919-851-1433 wes@sailboard.bgsm.wf u.edu

The meeting was called to order at 9:30 am by Roy Nutter. Each participant introduced himself. The agenda followed the order in the Table of Contents of the AdCom Meeting, under Meetings Committee.

1. International Fuzzy Conference

The first item discussed was the proposed Fuzzy Systems Conference, proposed for San Diego in early March 1991. Jim Bezdek described the need for such a conference, and how it fits in with neural networks. Jim Bezdek noted "Japanese have developed a whole suite of products". Fuzzy Logic people have been waiting for IEEE interaction. Last international conference at Seattle had 275 people, 140 were from Japan. Toshio Fukada described cooperation he sees from Japanese societies. Pat Simpson presented and discussed the budget.

Income:

Publications	\$ 35,000
Tutorials	\$105,000
Registration	\$161,250
Exhibits	\$ 56,250
	<hr/>
	\$357,500

Expenses:

Promotion	\$ 65,000
Publications	\$ 91,500
Exhibits	\$ 6,000
Social Functions	\$ 45,000
Administration	\$ 43,650
Tutorials	\$ 20,000
Audit	\$ 2,500

NNC sponsored conference will be San Diego March 1-5, 1992
Very few companies have covered this base. So tutorials should be well attended.

Pat: moved to approve preliminary budget and appoint Jim Bezdek as Organizing Chair. This also includes \$30,000 seed money from NNC.

Second: Bob Marks

Japan Fuzzy System Societies would offer to be a participating society.

Unanimously approved.

(send Jim Bezdek IEEE Conference Guide)

2. IJCNN-93-Japan

Organizational Report from Dr. Fukada

Toshio Fukada the presented information on the 1993 Nagoya, Japan conference. Items he described included the conference site, the conference organization, and co-sponsorship by societies in Japan. Dr. Fukada moved that we approve preliminary budget and no seed money from NNC is needed. The surplus will be shared equally:
1/3 INNS, 1/3 NNC, 1/3 Japanese Societies plus a guarantee of no

deficit has been made by the Nagoya Chamber of Commerce
Marks Seconded. Approved.

IJCNN-92-Baltimore

Dr. Lau presented the plans for the Baltimore June 1992 meeting. Cliff is general chair. John Shynk of UC Santa Barbara is Program Chair. He presented a rough time line, and then a preliminary budget. The breakeven point is at about 1,250 attendees. He is requesting \$50K as seed money, and the authority to execute a conference management contract.

*Dr. Lau moved to approve preliminary budget
motion passed unanimously.*

Discussion was that 4 hour tutorials might be preferable plus a detailed announcement booklet may be useful in publishing tutorials.

Asked to identify those speakers to have expenses paid

unanimously approved.

Send IEEE Conference Guide

NNC/INNS Agreement Status

The joint agreement with the INNS was discussed at length. Russ Eberhart moved and Walter Karplus seconded the recommendation to the AdCom that we dissolve the agreement on December 31, 1991.

Singapore has requested publication of IJCNN in INNS Transactions
unanimously approved

IJCNN-91-Seattle

Budget approved. [see Marks agree]

? → Insert A - Budget in blue book

IJCNN-90-San Diego

Walter Karplus moved to instruct Pres to dissolve agreement with San Diego Section for IJCNN-90 if one exists given no effort was provided by San Diego Section to the conference. Recommend that \$7500 be given to San Diego Section.

Opinion is that no agreement exists

Seconded by Bob

Unanimously approved.

Pat moved to approve Audit in Tab 10 with Treasurer to have change made of allocation to San Diego Section to IEEE by Auditor.

Bob N. seconded.

Unanimously approved.

IJCNN-92-Beijing

Russ moved if IOC agreement is dissolved that NNC approve a Pacific Rim meeting in Beijing and investigate how to implement.

If IOC agreement continues that we approve Beijing as the IJCNN-92 October meeting with Zong Sha as General Chairman.

Seconded by Don

Unanimously approved.

Meeting was adjourned at 12:30 pm. The next meeting will be in Seattle in July.

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive
 IOC COORDINATION CHART

2/7/91

Conference	Year	Location	Dates	Lead Society	General Chairman	App'd by	Society	Date	2 yr lead for	1 yr lead for	90 days after	180 days after
									Preliminary Budget	Operating Budget	Preliminary Audit	Final Audit
IJCNN-89		Washington	Jun-89	IEEE	Nick DeClaris							Send to IE ³ 1/27/91
IJCNN-90		DC	Jan-90	INNS	Cooper							
IJCNN-90		San Diego	Jun-90	IEEE SD S	Walter Karplus							Done 8/90 & \$ spll
IJCNN-91		Seattle	July 8-12, 1991	INNS	Dave Rummelhart	Marks	IE ³	1/26/91	Jun-90	1/26/91		
IJCNN-91		Singapore	Nov 18-21, 1991	IEEE-NNC	Teck Seng Low	Widrow	INNS	Jun-90				
IJCNN-92		Baltimore	June 7-11, 1992	IEEE	Dr. Clifford Lau	Widrow	INNS	Oct-90				
IJCNN-92		Beijing	Oct-92	INNS	[Zong Sha?]							
IJCNN-93		Portland	Jun-93	INNS	[George Lendaris?]							
IJCNN-93		Nagoya, Japan	Oct 18-22, 1993	IEEE	Dr. Toehio Fukuda	Warbon	INNS	11/91	25	Mar/91		

INNS/ NNC Separation

Fuzz-IEEE-'92 Jim Beedek
 San Diego March 1992

Fuzz-IEEE-'93 Ruspini
 San Francisco 1993

Word Congress on Intelligent System '94
 Washington DC 1994



DEPARTMENT OF ECONOMICS, 0508
(619) 534-3383

9500 GILMAN DRIVE
LA JOLLA, CALIFORNIA 92093-0508
October 31, 1990

Prof. Bart Kosko
SIPI/Dept. of Electrical Engineering-Systems
Powell Hall of Engineering
University of Southern California
University Park
Los Angeles, CA 90089-0272

Dear Bart:

At long last I have found time to pull together my receipts and the other items you requested in your letter of June 22. The breakdown is as follows:

Slide Preparation:	\$283.79
Copyright Permissions:	200.00
Source Materials:	35.23
Parking:	4.00

TOTAL	\$523.02

These expenses were billed against one of my research accounts, so the check for reimbursement should be made out not to me, but to "Regents of the University of California".

I enclose a copy of my plenary address, the slides that went with it (except for the copyrighted Far Side cartoons), and some other recent work. I am pleased that so many people found my talk useful. I have been getting many favorable comments, and am most grateful to you for giving me the opportunity to present my research to such a large audience.

I've also been engaging in some fuzzy thinking, but my thoughts have not yet congealed into anything useful. When they do, I hope to have the chance to talk with you about them. In any case, I look forward to running into you again sometime soon.

Best regards,

Halbert White
Professor of Economics

P.S. Have you had a chance to look at that paper on fuzzy estimation in panel data? The editor is breathing down my neck for a response.

P.P.S. I have just received your letter, papers, and book chapter. I haven't yet had time to look it over, but please give me a call soon so we can chat.



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO
June 26, 1991

Professor Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Prof. Nutter:

Due to the fact that I will be arriving at Seattle on the evening of July 8 and therefore will not be able to attend the NNC Adcom meeting, enclosed is a short report concerning the present status of IJCNN'92 Baltimore. Please feel free to use it at the meeting.

As you may or may not know, I had sent two different budget proposals in May to Bob Marks, both of which reflected the INNS requirement that the registration fee be less than \$200 for members. Both proposed budgets have been approved by the INNS President P. Werbos and tentatively approved by Bob Marks pending concurrence by the NNC. The enclosed budget (encl. (2)), with February 1, 1992 as the early-early registration deadline at \$195 for members, will be our working budget.

But since we do not notify authors about acceptance of their paper until March 6, 1992, our present plan is to allow authors to register at the early-early rate until April 20, 1992. This fact will be discretely sent out together with the acknowledgment letter upon receipt of submitted papers. Thus the actual working budget will be somewhere between enclosure (2) and another "approved" budget (encl. (3), with the March 30, 1992 early-early deadline.) I am not sure how to handle this, but I assume this approach will be approved by the NNC.

The status report is self-explanatory. If there is any question, please either call me at (703)696-4961 or catch me at Seattle.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Clifford Lau", written in black ink.

Clifford Lau
Chair, IJCNN'92 Baltimore

Cc: Dr. Robert J. Marks, II

IJCNN'92 Baltimore

June 7 - 11, 1992

Baltimore Convention Center

Organizing Committee Meeting

Room 604

8:00 pm - 10:00 pm

July 9, 1991

Program Committee Meeting

Room 606

8:30 pm - 10:00 pm

July 9, 1991

IJCNN'92 Baltimore

International Joint Conference on Neural Networks
June 7 - 11, 1992

- * **Purpose:** To bring together research scientists and engineers to discuss recent advances in neural network research, and to showcase the latest developments in neural network technology.

- * **Dates:** June 7, 1992 (Sunday)
Day of tutorials

June 8 - 11, 1992 (Monday - Thursday)
Conference and exhibits

- * **Place:** Baltimore Convention Center
Baltimore, Maryland

- * **Sponsors:** IEEE (lead)

INNS

IJCNN-92 Baltimore

Organization

- * General Chair: Dr. Clifford Lau, ONR
- * Honorary Chair: Prof. Bernard Widrow, Stanford
- * Program Chair:
Committee: Prof. John Shynk, UC S. Barbara
The usual suspects, letters
will go out shortly
- * Finance Chair: Dr. Pat Shoemaker, NOSC
- * Publications Chair: Prof. Fathi Salam, Michigan S. U.
- * Exhibits Chair: Dr. Herbert Wang, Rockwell S.C.
- * Special Sessions: Dr. Andrew Penz, Texas Instr.
- * Tutorials Chair: Prof. Richard Andersen, MIT
- * Local Arrangements: Prof. Andreas Andreou, JHU
- * Volunteers Chair: Ms Nina Kowalski, JHU
- * Far East Liaison: Prof. Shun-ichi Amari, U. Tokyo
Prof. Toshio Fukuda, Nagoya U.
- * European Liaison: Prof. Rolf Eckmiller, Germany
- * IEEE Liaison: Dr. Roy S. Nutter, W. Virginia U.
- * INNS Liaison: Dr. Judith Dayhoff, U. Maryland
- * Meeting management: Nomi Feldman

IJCNN'92 Baltimore
June 7 - 11, 1992
Baltimore Convention Center

Status (July 9, 1991)

- * Baltimore Convention Center has been reserved.
Contract signed.
- * About 1000 rooms in the surrounding hotels have
been reserved. Contracts signed.
- * Meeting management firm selected (N. Feldman).
Contract signed.
- * Operating budget has been approved by both
IEEE and INNS in May, 1991.
- * Organizing committee fully in place.
Program committee fully identified.
- * Publicity brochures prepared:
Call for Papers.
Call for Tutorials.
Call to organize special sessions.
Exhibit information.
- * Advertising campaign started, a lot more to come.

IJCNN'92 Baltimore
June 7 - 11, 1992
Baltimore Convention Center
Time line

- | | |
|-------------------|--|
| Jan. 1991 | Organizing committee identified.
Preliminary budget submission. |
| May 1991 | Operating budget approved by IEEE and
INNS |
| July 9, 1991 | First organizing and program committee
meetings.
Limited mailing of Call for Papers. |
| Dec. 2-5, 1991 | Second organizing committee meeting.
(At NIPS, Denver, CO.)
Mass mailing of Call for Papers. |
| Jan. 15, 1992 | Camera ready manuscripts due
(Limited to 6 pages max. original + 5 copies.) |
| Feb. 1, 1992 | Deadline for early-early registration |
| Feb. 28, 1992 | Second Program committee meeting.
(Location to be determined, likely San Diego.) |
| Mar. 6, 1992 | Notification of acceptance of papers.
(Authors will be allowed to register as early-early.) |
| Apr. 20, 1992 | Early registration deadline. |
| May 22, 1992 | Proceedings and program ready. |
| June 7 - 11, 1992 | IJCNN'92 Baltimore |

IJCNN'92 Baltimore General Policies

- * Early-early registration before Feb. 1, 1992 at \$195 for members. Early registration before Apr. 20, 1992 at \$245 for members. Late registration at \$295 for members.
- * For non-members, the additional \$40 will be applied to their membership application to either IEEE or INNS if done at the conference.
- * Authors will be allowed to register at early-early rate until Apr. 20, 1992. Thereafter regular late rate.
- * Financial aid to travel to organizing committee meeting is minimal and is considered on a case by case basis. There will be no funding for program committee travel.
- * Student registration will get no conference proceedings and no dinner banquet. Proceedings can be purchased at reduced price (\$30?)
- * **Volunteers will be treated like students but with their registration fees waived.** Those who volunteer for tutorials will be allowed to attend the tutorial while working, but not the conference.
- * Tutorial speakers will be paid \$1,000 plus travel expenses (round-trip airfare and 2 nights lodging.) If they want to attend conference, they will be allowed to register at student rate, and pay for their own additional lodging.
- * Travel expenses for plenary speakers (5 planned, one for each day, and one after dinner) will be paid (round-trip airfare and 2 nights lodging.) If they want to attend conference, registration fees are waived, but they will have to pay for their own additional lodging.
- * Travel expenses for General Chair, Program Chair, and Finance Chair are paid and registration fees waived (for General Chair and Finance Chair, that may not be possible or necessary since they are government employees.)
- * For exhibitors, nominally two persons will be allowed per booth. More persons will need to purchase additional booths or to register. Exhibitors will not get proceedings or dinner banquet.
- * **Everyone else must register, even VIPs. There will be no exceptions.**

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before February 1, 1992	<i>small</i>	\$195	\$235			
3	Before April 20, 1992		\$245	\$285	\$75		
4	After April 20, 1992	<i>30%</i>	\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (5%)		\$11,700	\$13,650	\$15,600	\$17,550	\$19,500
16	Early - member (20%)		\$58,800	\$68,600	\$78,400	\$88,200	\$98,000
17	Early-early nonmem. (2%)		\$5,640	\$6,580	\$7,520	\$8,460	\$9,400
18	Early - nonmember (8%)		\$27,360	\$31,920	\$36,480	\$41,040	\$45,600
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
21	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$292,200	\$340,900	\$389,600	\$438,300	\$487,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other income (int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$524,200	\$590,150	\$656,100	\$722,050	\$788,000

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$524,200	\$590,150	\$656,100	\$722,050	\$788,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$574,200	\$640,150	\$706,100	\$772,050	\$838,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$40,500	\$79,450	\$116,200	\$150,750	\$185,300

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before March 30, 1992		\$195	\$235			
3	Before May 15, 1992		\$245	\$285	\$75		
4	After May 15, 1992		\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (20%)		\$46,800	\$54,600	\$62,400	\$70,200	\$78,000
16	Early - member (15%)		\$44,100	\$51,450	\$58,800	\$66,150	\$73,500
17	Early-early nonmem. (5%)		\$14,100	\$16,450	\$18,800	\$21,150	\$23,500
18	Early - nonmember (15%)		\$51,300	\$59,850	\$68,400	\$76,950	\$85,500
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (15%)		\$53,100	\$61,950	\$70,800	\$79,650	\$88,500
21	Late - nonmember (10%)		\$40,200	\$46,900	\$53,600	\$60,300	\$67,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$269,400	\$314,300	\$359,200	\$404,100	\$449,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$501,400	\$563,550	\$625,700	\$687,850	\$750,000

	A	Robert J. Marks II Library Archive	D	E	F	G	
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$501,400	\$563,550	\$625,700	\$687,850	\$750,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$551,400	\$613,550	\$675,700	\$737,850	\$800,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$17,700	\$52,850	\$85,800	\$116,550	\$147,300

(Prepared 7/1/91 by EA Casey)

FUZZ-IEEE '93
SAN FRANCISCO, CALIFORNIA

SITE SEARCH REPORT

1. San Francisco Hilton and Towers Sunday-Thursday
March 7-11, 1993

1991 Rates: Rack Group

 Single: \$165-185-205-225+ \$130-150-170-190
 Double: \$190-210-230-250+ \$155-175-195-215

 Maximum 7% increase per year.

2. Hyatt Regency San Francisco Sunday-Thursday
March 28 - April 1, 1993

Rates: Rack ('92) Group ('93)

 Single: \$218 \$151
 Double: \$258 \$174

3. San Francisco Marriott Saturday-Wednesday
April 17-22, 1993

1991 Rates: Rack Group

 Single: \$198 \$155
 Double: \$228 \$175

HOLIDAYS

Wednesday, March 17, 1993	St. Patrick's Day
April 6-13, 1993	Passover
Friday, April 9, 1993	Good Friday
Sunday, April 11, 1993	Easter Sunday

SCHEDULE

Sunday	Tutorials
Monday	Technical Sessions
Tuesday	Technical Sessions
Wednesday	Technical Sessions
Thursday	Technical Sessions

/eac

(Prepared 7/1/91 by EA Casey)

**1994 IEEE WORLD INTELLIGENCE CONFERENCE
WASHINGTON, DC**

SITE SEARCH REPORT

1. Sheraton Washington Sunday-Thursday
July 31 - August 11, 1994

1991 Rates:	<u>Rack</u>	<u>Group</u>
Single:	\$176 - \$226	\$128
Double:	\$206 - \$256	\$143

Guarantee 30% off 1994 rack for meeting.

2. Washington Hilton and Towers Sunday-Thursday
June 19-30, 1994

1991 Rates:	<u>Rack</u>	<u>Group</u>
Single:	\$170 - \$210	\$130-140-150
Double:	\$190 - \$230	\$150-160-170

Maximum 7%-10% increase for 1994.

SCHEDULE

Sunday	ICNN Tutorials
Monday	ICNN Technical Sessions
Tuesday	ICNN Technical Sessions
Wednesday	ICNN Technical Sessions
Thursday	ICNN Technical Sessions
Friday	FUZZ-IEEE Tutorials
Saturday	FUZZ-IEEE Technical Sessions
Sunday	FUZZ-IEEE Technical Sessions
Monday	FUZZ-IEEE Technical Sessions
Tuesday	FUZZ-IEEE Technical Sessions
Wednesday	Satellite Meetings
Thursday	Satellite Meetings

/eac

(Prepared 7/2/91 by N. Feldman)

IEEE 1994 World Intelligence Conference

ALTERNATIVE SCHEDULE

Saturday	ICNN Tutorials
Sunday	ICNN Technical Sessions
Monday	ICNN Technical Sessions Satellite Meetings
Tuesday	ICNN Technical Sessions FUZZ-IEEE Tutorials
Wednesday	ICNN Technical Sessions FUZZ-IEEE Technical Sessions
Thursday	FUZZ-IEEE Technical Sessions Satellite Meetings
Friday	FUZZ-IEEE Technical Sessions
Saturday	FUZZ-IEEE Technical Sessions

TAB 28

**Minutes of the IEEE Neural Networks Council Administrative Committee Meeting held on
July 8, 1991, in Seattle, Washington.**

The meeting was called to order at 9:10 am by President Robert J. Marks.

Present: James Bezdek, Brad Dickinson*, Watali Dunin-Barkowski, Russ Eberhart*, Irving Engelson, Toshio Fukuda*, Karen Haines, Walter Karplus, Stamatios Kartalopoulos*, Tong-Heng Lee, Bob Marks*, Troy Nagle, Bob Newcomb*, Roy Nutter*, Mike Roth, Zong Sha, Pat Simpson*, Wes Snyder*, Richard Trueblood*, Litsa Tzanakou*, Shiro Usui*, Ruth Wagner (Minutes recorder) (* denotes voting member)

The following proxies were submitted to Secretary Tzanakou:

Edgar Sanchez Sinencio to Bob Newcomb
Herb Rauch to Mike Roth
Charlie Robinson to Troy Nagle
George G. Cook to Roy Nutter
Don Brown to Litsa Tzanakou
Ed Posner to Litsa Tzanakou

Motion made and seconded: To adopt the agenda as presented with the following additions:

NN Transactions to be added under Committee Reports

Subscription Prices/non-prices to be added under Treasurer's Report

To be added under Meeting Committee report: IJCNN San Diego, motion re San Diego section, bill from plenary speaker, volunteer guidelines

PASSED

In the absence of Vincent Poor, 1991 NNC Nomination Chair, Brad Dickinson conducted the election of officers for 1992-93. The Nominating Committee slate was presented

For President - Russell Eberhart
For Vice President - Patrick K. Simpson
For Treasurer - Roy Nutter and Toshio Fukuda
For Secretary - Don Brown

Dickinson noted that the ballot in the agenda book had incorrectly listed Fukuda as candidate for Secretary. **Motion** made and seconded the following nominations were added from the floor:

For President - Bob Newcomb
For Vice President - Litsa Tzanakou
For Treasurer - Stamatios Kartalopoulos

Voting was by written ballot. The secretary was requested to review which members were entitled to vote. Election for each office was held individually. Russell Eberhart was elected President. Tzanakou then declined the nomination for Vice President. **Motion** made and seconded: To elect Pat Simpson Vice President by acclamation. PASSED. Simpson was elected Vice President. The first ballot for Treasurer failed to give any candidate a majority. Therefore the lowest candidate, Fukuda, was eliminated and a second ballot was taken with the candidates of Kartalopoulos and Nutter. Nutter was elected Treasurer. **Motion** made and seconded: Toshio Fukuda also be nominated for the position of Secretary. Fukuda was elected Secretary.

The President reminded the new officers that they could no longer represent a Society. The point then arose that Simpson (a current officer) had voted in the election just held and that this might

have affected the outcome. **MOTION** by Newcomb to invalidate the election. Motion was not seconded. Discussion ensued on the consequence of the extra vote. It was deemed to have possibly have affected only one office. **MOTION** made by Eberhart, seconded: All four officers be elected be by acclamation. **PASSED**. Four abstentions: Newcomb, Tzanakou, Kartalopoulos, Usui.

Minutes of the January 26, 1991, meeting were passed out to be reviewed.

MOTION made and seconded to pass Consent Agenda:

Education Chair - Robert W. Newcomb

NNC Liaison to the IEEE Press - Stamatios Kartalopoulos

Video Tutorials Chair - Mohamed El-Sharkawi

NNC Representative to the TAB Newsletter Committee - Wes Snyder

PASSED

Committee Reports

President's Report: New activities - Education Chair, Newcomb, with Video Tutorials chair working with him, provide liaison to the student organization; NNC sponsoring books through IEEE Press; new newsletter; IJCNN giving awards; Standards Committee is having a meeting in conjunction with this meeting for the first time; established IEEE NNC Forums, small conference workshop activities; sponsoring first conference on Fuzzy Systems in '92; Presidents' Forum with presidents or representatives from the Russian NN Society, Chinese NN Society, Japanese NN Society and Jenni, the Joint European NN Society. Introduced distinguished guests Dr. Witali Dunin-Barkowski, President of the Russian NN Society from Rostov-on-Don in the Soviet Union and Dr. Zong Sha from Beijing, the President of the Chinese NN Society. Established Video Tutorials Chair to record sessions in the studio, rather than at the actual meeting. Initiation of a World Congress on Intelligent Systems in 1994 with the International Conference on NN back-to-back with the Fuzzy Conference in one location.

Past President's Report: Troy Nagle asked participants to review the petition included in the meeting packet. He spoke about the possibility of assembly members electing themselves to ExCom for the next year with the appearance of possible conflict of interest. He urged members to circulate a petition to put the issue on the Fall, 1992, ballot. Any member can sign a petition - member, senior member, or fellow. Students, affiliates, and associate members are not voting members and are not eligible to sign.

Vice President's Report: Attended TAB meeting in San Francisco a few weeks ago. Items that will not be covered elsewhere: Societies (particularly the Computer Society as well as others) that have provision of affiliating with other professional organizations throughout the world that have similar interests - Eberhart is in the process of working with Helen Woods of the Computers Society and will bring to the next AdCom meeting what these affiliations look like and what is necessary to form them. Basically it gives members of those Societies preferential treatment in things like conference registration fees and subscriptions to transactions - don't get member fee, but don't have to pay full fee. Reiterate welcome to visitors. Forum activity is a major new thrust area as the Council evolves toward Society status. Under Tab 11 a field of interest change will be discussed - important for us to think about moving into other areas as Fuzzy Systems and Genetic Algorithms formally. With Marks, talked with other Presidents and Vice Presidents and there appears to be no difficulties in doing this.

Treasurer's Report - Tab 5 - Pat Simpson made a **MOTION**: To approve the budget as submitted, open to friendly amendments. Information Item, Attachment 3, page 2. Roth requested the "NNC Transactions" paragraph be stricken as incorrect. Referring to the last page, reflecting membership trend, the figures reflect Transactions subscribers rather than actual membership. It was determined that the budget presented was for 1991 and on **MOTION**, seconded, action on the budget was tabled until after lunch so that the 1992 figures could be presented.

Secretary's Report - Evangelia Tzanakou offered an apology for the lateness of the minutes which was due to a family member problem. (Copy attached) **MOTION** by Tzanakou: In order to help the Secretary of the Council taking minutes and keeping records, I move that a local professional secretary be hired for all future AdCom meetings with arrangements made by the Council Secretary. Seconded and PASSED.

Transactions for Neural Networks Report - Tab 6 - Mike Roth, Editor - Report as presented in Meeting Packet noting that on Attachment 3 the 1991 budget will end with a surplus. Increasing the subscription rate will possibly generate a 25 per cent increase in income. There may come a point in the future where the Council will have to pay for secretarial support.

Agenda revised to have reports of Beijing and Rostov-on-Don meetings after a five-minute recess.

Meetings Committee Report - Roy Nutter **MOTION**: On behalf of the Meetings Committee, I move that the IEEE Neural Networks Council Forum on Neuroinformatics and Neural Computers at Rostov-on-Don, USSR, be approved. This is to be a no loss forum Bob Marks is to chair the committee with Pat Simpson and Irv Engelson as members to prepare and present a budget and agreement to IEEE. In addition, in order to not conflict with the IJCNN-92 in Beijing, China, on November 3-6, 1992, this forum must be complete by October 3, 1992. Dr. Witali Dunin-Barkowski was introduced and he spoke briefly about the conference. PASSED.

Eberhart introduced Dr. Zong Sha to speak about the IJCNN in Beijing-92, Nov. 3-6, to be held at the Twenty-first Century Hotel, to be co-chaired by Prof. Amari (Japan) and Dr. Eberhart. Paper submission deadline is the end of June, 1992. There will be six post tours to Chinese cities. This conference is an INNS lead.

Announcement made about the Presidents' Forum on Tuesday night at 6:30 pm.

Publications Committee Report - Toshio Fukuda - Jim Bezdek headed an Ad Hoc Committee for Transactions on Fuzzy Systems (Tab 13). **MOTION**: To approve proposal in Tab 13 to publish IEEE Transactions on Fuzzy Systems. Seconded. People receiving the NNC Transactions would need to subscribe for \$10 - noting that new journals start low to attract students and to build a subscriber base. PASSED. Karplus abstained.

The Council's newest publication has been named "the intelligence coNNection," which the editor of "INTELLIGENCE - The Future of Computing" feels is too similar. **MOTION**: Approve change of name for the newsletter to not be in conflict with INTELLIGENCE. The proposed new name is to be approved by ExCom as well as the Publications Committee. Seconded. PASSED.

MOTION: Increase the publication of the newsletter from two issues to four issues a year with no increase in the number of pages. Discussion revealed that the cost estimate would be \$26,000 a year with no increase in the number of pages. PASSED.

MOTION: Committee recommends that the price of Transactions be increased as follows: Student from \$8 to \$9; IEEE NNC from \$10 to \$12; IEEE but not NNC \$15 to \$20; Non-member

from \$75 to \$95. Discussion revealed that the student rate is fixed at 75% and, therefore, should be eliminated from the motion. The **AMENDED MOTION PASSED** with one opposition, one abstention. Question: Are there special rate for unemployed and retired? There are rates for dues and fees which are different, covered by bylaws; students are built into structure.

Tab 16: For information: Contract for newsletter editor.

NNC Liaison to IEEE Press is Stamatiou Kartolopolous who spoke to activities since last January. The IEEE Press is interested in publishing books but it was necessary to determine type of books. Successes: Sanchez-Sincineo and Lau book with working title of **NEURAL NETWORKS IN CIRCUITS AND SYSTEMS**; a book derived from the Proceeding by Dr. Lau entirely sponsored by NNC; and a reference book also in the Fuzzy area by Professor Bezdek. A letter has been sent saying we are interested in it. The book is currently under IEEE review. There are other proposals: one by Thomas Caudell, an intermediate level Book entitled **NEURAL NETWORKS** which is currently under review; another by L. Kamm is introductory, for the non-specialist engineer entitled **AUTOMATION AND CONTROL SYSTEMS**. This author is seeking sponsorship. Is NNC interested? Another, **REAL WORLD ENGINEERING**, introduces the non-robotics engineer to what is expected when you go out into the "real world."

Other information comments: 1- IEEE needs to enrich its Neural Network portfolio with more than Reprint Books, such as Series, Monographs, and Advanced level books. 2. Titles/subtitles should be more descriptive of the objectives of the book. 3. If needed, IEEE may team-up with other publishing houses to increase market. 4. IEEE encourages all members to consider book authorship.

Newcomb reported that CAS is somewhat dissatisfied with IEEE Press. Concern is that IEEE Press decided to transfer the Lau/Sanchez book to NNC. The President requested Newcomb as CAS representative to act as NNC liaison to reach a good compromise.

Awards Committee Report- Brad Dickinson - Four nominations were received for the 1991 IEEE Transactions on NN Outstanding Paper Award and the Committee selected the paper "Identification and Control of Dynamical Systems Using NN" by Prof. Kumpati S. Narendra and Mr. Kannan Parthasarathy. Paper appeared in Vol. 1 No. 1 of the Transactions. Awards Committee served as the NN Networks Pioneer Awards subcommittee. It reviewed the nominations for the 1991 IEEE NNC Pioneer Award and three award winners were selected: Stephen Grossberg, Tuevo Kohonen, and Bernard Widrow. The two sets of awards will be presented tonight. Dickinson designed a NN plaque which will be presented to each Pioneer and certificates were prepared. There were 15 plaques made, enough for the projected five years the award is approved for. The cost was slightly over. **MOTION**: Allocate a maximum of \$50 additional to the previously authorized \$500 to cover cost of producing award plaques for the Neural Network Pioneer award for the years 1992-1995. **PASSED**.

Dickinson also served as Chairman of the NNC Fellow Evaluation Committee. One Fellow nomination was reviewed for 1991 and he was asked to write one nomination endorsement letter on behalf of a nominee being evaluated by another Society.

Soliciting suggestions for new awards. Suggest it would be particularly nice to have some type of student award. Various societies do this; it's often in the form of an award for an outstanding Transactions paper authored by a student or principally co-authored by a student. If there's interest in that type of award Dickinson should follow through.

ACTION ITEM: Dickinson to draft a description of that type of award and circulate it for approval for student publication award(s).

Standards Committee Report- Walter Karplus - First meeting held last night, another scheduled for tomorrow. Background given on purpose of committee. Within IEEE each committee has its own Standards Committee. Formed Committee and an administrative subcommittee - actual work performed by working groups. Administrative Committee includes, among others, representatives from academia and government laboratories. The committee will also invite representatives of vendor organizations as consultants. Mr. Trueblood attended last night's meeting in that capacity. Will probably meet twice a year. Committee decided to encourage formation of subgroups. Among activities to start: a glossary for artificial neural networks, a collection of symbols and icons used as representations of NN; methodology of performance evaluation for hardware and software products; defining basic paradigms of NN. Adoption of standards has taken from 2 to 10 years. Also talked about interfaces between NN products and the outside. Permanent task groups will be provided machinery to do as much as possible. Mary Lou Padgett is vice chair and very active. A lot of travel is involved. **MOTION:** To augment current budget of \$5,000 with an additional \$3,000 for 1992 budget. **PASSED** with two abstentions.

Recessed at 12:30 for one hour lunch.

IJCNN Oversight Committee Report - Roy Nutter recognized Bob Marks to present the dissolution agreement with INNS (Tab 8) which has been signed by both organizations. Fourth paragraph, second sentence: Eliminate the word "no" so that sentence reads, "A major conference is any meeting that has an attendance of more than 400 participants at the conference site."

MOTION: The Meetings Committee unanimously recommends that the audit of IJCNN-90 San Diego be corrected by the auditors to accurately reflect the relationship with the San Diego Section. (This is a stronger wording to the motion in the minutes of April 3). Motion **PASSED**.

MOTION: The Meetings Committee recommends that a letter from the NNC be sent to the San Diego Section reflecting that "Even though there is no formal agreement between NNC and the San Diego Section, the NNC recognizes that there were many discussions attempting to form such an agreement. Even though such an agreement was never consummated, the NNC would be receptive to discussion in pursuit of future conference possibilities in San Diego." A friendly amendment was made by Pat Simpson. **AMENDED MOTION:** The Meeting Committee recommends that a letter from the NNC be sent to the San Diego Section reflecting that "in response to your request for a meeting in San Diego in 1994, plans have already been made that will not allow it to occur. Future meeting requests will be handled in accordance to IEEE NNC procedures."

Pat Simpson then read a motion that Troy Nagle planned to present:

Whereas, the Neural Network Council recognizes the contribution of the San Diego Section in initiating IEEE's involvement in Neural Networks

Whereas, all past agreements with the San Diego Section have been superseded by the Neural Networks Charter approved by the IEEE Technical Advisory Board and Executive Committee Whereas both the Neural Network Council and the San Diego Section are interested in developing a new spirit of cooperation for future conferences to be conducted in San Diego,

It is **MOVED** that the Neural Networks Council offer the San Diego Section 10 per cent sponsorship in Fuzz-IEEE '92 being held in San Diego. that a meeting of

representatives from the Neural Network Council and San Diego Section should take place within six months after Fuzz-IEEE '92 to develop future meeting joint ventures, such as the World Congress on Intelligent Systems in 1995.

MOTION by Nagle: Move to substitute the motion by Simpson for the motion on the floor. Discussion decided the motions are not in conflict. Nagle and seconder withdrew this motion.

The Amended Motion by Simpson passed.

Nagle requested the above **MOTION** starting "Whereas" be voted upon. A **FRIENDLY AMENDMENT** was added by Simpson:

It is moved that the Neural Networks Council offer the San Diego Section *up to 10 per cent* sponsorship in Fuzz-IEEE '92 being held in San Diego, *provided a mutual agreement can be made in writing between both parties.* and that a meeting of representatives from the Neural Networks Council and San Diego should take place within six months after Fuzz-IEEE '92 to develop future meeting joint ventures, such as the World Congress on Intelligent Systems in 1995.

PASSED with one abstention.

A letter from Bart Kosko explained that he had received a bill from Prof. White of University of California for \$522 for materials for his presentation after the books were closed for IJCNN-90, San Diego. **MOTION** by Nutter: Meetings Committee of the Neural Networks Council not reimburse speaker preparation costs in future events. PASSED.

MOTION by Nutter: Meetings Committee unanimously recommends that the above policy be applied retroactively to this case unless there is a written prior commitment from the conference chairman of IJCNN-90, San Diego. PASSED. This should be communicated to the speaker in question by NNC President Marks.

MOTION by Nutter: For Fuzz-IEEE-92, the Meetings Committee recommends that all tutorial presenters be paid an honorarium of \$1,000 per four-hour tutorial plus necessary and ordinary travel and lodging expenses.

AMENDMENT TO MOTION by Ruspini: Raise the cap on the speaker's fee to \$1,500. Seconded. Extensive discussion followed with the warning by Eberhart that tutorials must pay for themselves or the number of tutorials will need to be cut. Nagle raised the point that in the past the conference organizers particularly San Diego Conference '87, got a substantial financial reward. Happened again in '90. This resulted in the \$500 to \$1,000 cap. Vote by hand: 5 for and 11 against. **AMENDMENT DID NOT PASS.**

AMENDMENT by Eberhart to motion from Meetings Committee: Travel expenses will be at economy airfare and two night's of lodging. Died for lack of second.

Minutes are to reflect that necessary and ordinary travel and lodging shall mean a maximum of two nights lodging and economy air fare. PASSED. Speakers should be notified of this item. It was pointed out that all cooperating societies are not listed.

MOTION by Nutter from Meetings Committee: Move to approve budget for FUZZ-IEEE-92 in Tab 21 with a line item added for volunteer expenses not to exceed \$5,000.

MOTION by Nutter: Meetings Committee unanimously recommends that the revised budget submitted by Dr. Lau as "enclosure 2" (for '92 IJCNN Baltimore) be approved and that the "best guess estimate of attendance" be 1400. A line item for volunteer expenses not to exceed \$5,000

needs to be added. PASSED.

MOTION by Nutter: The Meetings Committee unanimously recommends that Dr. Enrique Ruspini be approved as General Chair of FUZZ-IEEE '93 in San Francisco. Dr. Ruspini and Nomi Feldman will choose a date in late spring. PASSED

MOTION by Nutter: The Meetings Committee recommends that IJCNN-93 Nagoya, Japan, be changed to October 25-29, 1993. PASSED

MOTION by Nutter: Move that to clarify the budget for the IJCNN-93 in Nagoya the budget be established so as to share surplus (loss) 1/3 to IEEE NNC, 1/3 INNS, 1/3 Japan NN society. PASSED

MOTION by Nutter: The Meetings Committee recommends that for 1994 IEEE World Congress on Intelligent Systems

1. Bob Marks be asked to be Congress Chair and
2. The schedule be as shown on page 2 of handout (attached as part of minutes).

PASSED

MOTION by Nutter: (Tab 22) The Meetings Committee recommends that NNC cooperate with Intelligent Vehicle '92 Symposium. PASSED

MOTION by Nutter: (Tab 19) The Meetings Committee moves that the following Forums be approved:

1. IEEE NNC Forum on Combining Genetic Algorithms and Neural Networks, by Don Brown and Russ Eberhart, June 6, 1992. \$2,500 seed money will be provided by NNC. This being done provided Clifford Lau, General Chair of IJCNN-92 Baltimore approves.

2. IEEE NNC Forum on Applications of Artificial Neural Networks (ANN) Technology to Electromagnets Inverse Problems and Remote Sensing by Akira Ishimaru, November 11-13, 1992. \$7,500 seed money will be provided. This being done with concern for overlapping of IJCNN-92 Beijing.

PASSED

MOTION by Nutter: The Meetings Committee unanimously recommends that all future events include the proceedings with any student registration. PASSED

MOTION by Nutter: Volunteers who are engaged to provide conference security and who are committed to provide twenty hours or more of service are considered to be unpaid staff. As such they receive without charge one copy of the conference proceedings as well as a name badge and admittance to conference activities. PASSED

MOTION by Nutter: The two previous motions be applied to the Baltimore budget. PASSED

Education Committee Report - Bob Newcomb. AdCom voted \$5,000 for student travel support. A procedure has been worked out. Student's will submit their own expenses. There is \$2,500 left from previously allocated money. Planning to fund 1, 2, or 3 students to go to Singapore to present their paper, depending on costs to go there.

Dr. Mohamed El-Sharkawi was introduced as Chair of Video Tutorials. He went through the attached proposal. Discussion ensued on the royalties to speaker and with IEEE, honorariums. An AdHoc Committee was appointed consisting of Pat Simpson, Karen Haines, President of ExCom,

and Wes Snyder to work with Dr. El-Sharkawi to be guided by the idea of a fair deal for the speaker and to the Council. The budget will need to be fine-tuned and submitted to ExCom for approval. **MOTION:** The Neural Networks Council hereby approve the following items regarding the subject Video Tutorial: 1. Objectives of Video Tutorials; 2. Role of IEEE Educational Activities Board; 3. Role of NNC; 4. Role of the Video Tutorial Committee; 5. Video Tutorial Budget; 6. Video Tutorial Royalties Breakdown; 7. Level of funding requested from the NNC: \$3,000 per title for up to 5 titles. Seconded. **PASSED.** A meeting was arranged for the Tutorials AdHoc Committee to meet later in the evening.

A Pioneer series sequence is a possibility.

Karen Haines passed out two handouts for information: 1. IEEE NNC Conference Volunteers Organization Agreement and 2. a letter to IJCNN Sponsorship recipients. She requested those present who are involved in academics to fill out questionnaire for the ISSNET Academic program about existing academic programs that support research in NNets.

Dr. Eberhart was presented with a Council pin for his new office as President.

MOTION: Remove from the table the motion for budget approval to be delegated to ExCom. Seconded. **DEFEATED.**

Simpson was requested to immediately prepare an overhead transparency.

NEW BUSINESS

Eberhart spoke to the need of secretarial support for the President. Mrs. Eberhart is willing to assume these duties and this is brought forth to ascertain the feeling of the group that this is not a conflict of interest. The President is currently allocated \$10,000 a year for secretarial support.

MOTION: AdCom agrees that they do not construe the hiring of Mrs. Eberhart to provide secretarial support for Dr. Eberhart in his capacity as President as a conflict of interest. **PASSED** with one abstention.

MOTION by Dickinson: Fellows Evaluation Committee be established as a Standing Committee of the NNC. **PASSED.**

MOTION by Nutter: That NNC delegate authority to establish "cooperating" status or "participating" status to the Meetings Committee for NNC. By **FRIENDLY AMENDMENT, MOTION** was changed to: I move that NNC allow the Meetings Committee to identify and commit "participation" and "cooperation" with other conference with the agreement of the NNC President. **PASSED.**

Simpson presented the 1992 budget figures (See attached) **MOTION:** That the budget as presented be adopted. **PASSED.**

NEW BUSINESS

At the request of ExCom, Pat Simpson drew up the following proposed revision to ARTICLE II of the By Laws, Section 1 to encompass the vision of the future for the Council. **MOTION BY SIMPSON:** Revise Article II, Section 1 to read:

the field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms including neural networks, connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems and hybrid intelli-

gent systems in which these disciplines are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board. Motion seconded.

Roth holding the proxy of Herb Rauch raised his concerns. Extensive discussion followed and by **FRIENDLY AMENDMENT** Section 1 was reworded to read:

The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms involving neural networks, including connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

Pat Simpson left the meeting and gave his proxy to Russ Eberhart. In favor 15; opposed 3. Has the 2/3 needed. **PASSED.**

ExCom approved going forward with the registration of the trademark. The trademark will be owned by IEEE, used on Council business.

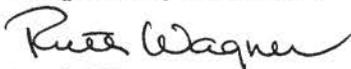
Establishment of next meeting: Proposed meetings: AdCom, Saturday, March 7, 1992 at San Diego Town & Country at FUZZ-IEEE Conference. ExCom, Monday, November 18, 1991 at Singapore Westin, Singapore IJCNN.

MOTION: Approve the proposed meeting schedule. Seconded. **PASSED.**

Oversight Committee is also scheduled to meet in Singapore.

MOTION: Adjourn the meeting. Seconded. **PASSED.** Meeting adjourned at 4:30 pm.

Respectfully submitted,



Ruth Wagner
Minutes recorder

for minutes



IEEE

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIVISION X: SYSTEMS AND CONTROL

H. Vincent Poor
DIRECTOR

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June 20, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

RE: Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

As of today, I have received the following nominations for the 1992 officers of the IEEE Neural Networks Council:

For President: Russell Eberhart
Bob Newcomb

For Vice-President: Patrick K. Simpson *by acclamation*
~~Frank~~

For Treasurer: Roy Nutter
S. Kartaloglou

~~For Secretary:~~ Toshio Fukuda

For Secretary: Don Brown
Toshio Fukuda

All nominations have been seconded.

Please let me know if you have any questions concerning these nominations.

Best wishes,

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.



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THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

DIVISION X: SYSTEMS AND CONTROL

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July 5, 1991

Prof. Robert J. Marks, II
President, IEEE Neural Networks Council
Department of Electrical Engineering
MS FT-10
University of Washington
Seattle, WA 98195

RE: Correction to Nominations for 1992 Officers of the IEEE Neural Networks Council

Dear Bob:

In my letter of 06/20/91, I incorrectly listed the office for which Toshio Fukuda has received a seconded nomination. He was nominated and seconded as a candidate for Treasurer.

I apologize for this mix-up, and I hope it does not cause any difficulties with the election process.

Best wishes,

A handwritten signature in black ink, appearing to read "H. Vincent Poor".

H. Vincent Poor
1991 NNC Nominations Chair

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

1991 IEEE Neural Networks Council Document
 Robert J. Marks II Library Archive

REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET INPUT INFORMATION FOR THE PERIOD ENDING DECEMBER 31, 1992 PROJECT: NEURAL NETWORK COUNCIL TAB INPUT INFORMATION						PAGE 0.01.		
DESCRIPTION	UNITS	-5	-4	-3	-2	-1	1991 BUDGET	1992 IEEE FORECAST		
INCOME PARAMETERS :										
PAGE CHG BILLING RATE	B \$/PG	110.00	110.00	110.00	110.00	110.00	110.00	110.00	110.00	110.00
INTEREST ON RESERVES	B %	7.50	6.50	6.50	7.00	7.00	7.00	7.50	7.00	7.00
STUDENT FEE	B \$	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
STUDENT OPTN PERIODIC	B \$	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
NO. OF FULL SUBS.	B	996	996	996	991	991	972	948	925	925
FULL SUBSCRIPTION RATE	B \$	3510.00	4035.00	4850.00	5500.00	5960.00	6854.00	6854.00	7955.00	7955.00
SECTION LIBRARY RATE	B \$	720.00	765.00	860.00	800.00	890.00	987.00	987.00	1090.00	1090.00
STUDENT CHAPTER RATE	B \$	420.00	450.00	460.00	500.00	575.00	656.00	656.00	745.00	745.00
EXPENSE PARAMETERS :										
FULL SUBS. EXP. COMMITMENT	B \$	300.00	340.00	340.00	340.00	340.00	340.00	340.00	700.00	1000.00
INDEXING CHARGE/IDX PAGE	B \$	195.00	200.00	200.00	230.00	230.00	230.00	200.00	260.00	260.00
T/J FULLY EDITED	B \$/PG	39.90	42.50	43.00	43.00	43.00	43.00	42.00	42.00	42.00
T/J AUTHOR/CAMERA READY	B \$/PG	6.65	7.00	7.10	7.10	7.10	7.10	6.00	9.00	9.00
NAG FULLY EDITED	B \$/PG	59.50	65.00	67.00	75.00	75.00	75.00			
NAG AUTHOR/CAMERA READY	B \$/PG	9.92	10.83	11.10	12.50	12.50	12.50			
PUBLICATION ADMINISTRATION :										
-T/J/M PAGES	B \$/PG	3.28	3.50	3.90	4.49	4.49	4.49	4.49	3.65	3.65
-T/J/M ISSUES	B \$/IS	180.00	200.00	210.00	251.00	251.00	251.00	251.00	180.00	180.00
-NEWSLETTER	B \$/IS	250.00	265.00	280.90	322.00	322.00	322.00	322.00		
-CONF. RECORD	B \$/IS	585.00	625.00	600.00	695.00	695.00	695.00	695.00		
PAGE CHARGE EPNSE	B \$/PG	15.50	16.50	16.80	20.00	20.00	20.00	22.00	22.00	22.00
HANDLG CHG PER NH SUS	B \$	6.25	6.50	7.00	7.35	7.75	7.75	4.35	4.35	4.35

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REPORT PROCESSED		IEEE S/C BUDGET INPUT INFORMATION					PAGE 0.02.		
09/03/91 RUN 1		FOR THE PERIOD ENDING DECEMBER 31, 1992							
		PROJECT: NEURAL NETWORK COUNCIL							
		S/C FEE, MEMBER STATISTICS AND SURPLUS/RESERVE ANALYSIS							
DESCRIPTION	UNITS	PRIOR YEAR BUDGETS AND ACTUALS					1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
		-5	-4	-3	-2	-1			
SOCIETY/MEMBER FEE	\$ \$/YR	\$-00	\$-00	\$-00	\$-00	\$-00			
NO. MEMBERS, HIGHER GRADES	B		3924	3941		4087			
	A	3941	3919	4087					
NO. STUDENT MEMBERS	B		570	594		777			
	A	594	688	777					

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET INPUT INFORMATION FOR THE PERIOD ENDING DECEMBER 31, 1992 PROJECT: NEURAL NETWORK COUNCIL TAB INPUT INFORMATION						PAGE 0.03.		
DESCRIPTION	UNITS	PRIOR YEAR BUDGETS AND ACTUALS					1991 BUDGET	1992 IEEE FORECAST		
		-5	-4	-3	-2	-1				
INCOME PARAMETERS :										
PAGE CHG BILLING RATE	B 3/PG	110.00	110.00	110.00	110.00	110.00	110.00	110.00	110.00	
INTEREST ON RESERVES	B X	7.50	6.50	6.50	7.00	7.00	7.50	7.00	7.00	
STUDENT FEE	B X	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	
STUDENT OPTION PERIODIC	B X	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	
NO. OF FULL SUBS.	B	996	996	991	991	991	972	948	925	
FULL SUBSCRIPTION RATE	B \$	3516.00	4035.00	4850.00	5500.00	5900.00	6854.00	6854.00	7995.00	
SECTION LIBRARY RATE	B \$	720.00	765.00	880.00	880.00	890.00	987.00	987.00	1098.00	
STUDENT CHAPTER RATE	B \$	420.00	480.00	460.00	500.00	575.00	656.00	656.00	745.00	
EXPENSE PARAMETERS :										
FULL SUBS. EXP. COMMITMENT	B K\$	300.00	340.00	340.00	340.00	340.00	340.00	700.00	1000.00	
INDEXING CHARGE/IDX PAGE	B \$	195.00	200.00	200.00	230.00	230.00	230.00	260.00	260.00	
T/J FULLY EDITED	B \$/PG	39.90	42.50	43.00	43.00	43.00	43.00	42.00	42.00	
T/J AUTHOR/CAMERA READY	B \$/PG	6.65	7.05	7.10	7.10	7.10	7.10	8.00	8.00	
MAG FULLY EDITED	B \$/PG	59.50	65.00	67.00	75.00	75.00	75.00			
MAG AUTHOR/CAMERA READY	B \$/PG	9.92	10.83	11.10	12.50	12.50	12.50			
PUBLICATION ADMINISTRATION :										
-T/J/M PAGES	B \$/PG	3.25	3.50	3.90	4.49	4.49	4.49	4.49	3.65	
-T/J/M ISSUES	B \$/IS	180.00	200.00	210.00	251.00	251.00	251.00	251.00	180.00	
-NEWSLETTER	B \$/IS	250.00	265.00	280.00	322.00	322.00	322.00	322.00		
-CONF. RECORD	B \$/IS	585.00	625.00	680.00	695.00	695.00	695.00	695.00		
PAGE CHARGE EPNSE	B \$/PG	15.50	16.50	16.50	20.00	20.00	20.00	22.00	22.00	
HANDLG CHG PER NA SUB	B \$	6.25	6.50	7.00	7.35	7.75	7.75	8.35	8.35	

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET INPUT INFORMATION FOR THE PERIOD ENDING DECEMBER 31, 1992					PAGE 0.03. 1		
		PROJECT: NEURAL NETWORK COUNCIL S/C MEMBERSHIP, FEES & PUBLICATION STATISTICS FOR F Y-RN							
DESCRIPTION	UNITS	PRIOR YEAR BUDGETS AND ACTUALS					1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
		-5	-4	-3	-2	-1			
ISSUES PER YEAR	B 1/YR					4	6	6	6
IEEE HQQ. EDITORIAL PRODUCTION :									
-FULLY EDITED	B PG/YR A					320 336	480	480	480
-AUTHOR/CAMERA READY	B PG/YR A								
-NONE	B PG/YR A								
MEMBER PERIODICAL RATE	B \$/YR					10.00	10.00	10.00	12.00
NON SOC MEM. IEEE RATE, N	B \$/YR					15.00	15.00	15.00	20.00
NR LIST PRICE	B \$/YR					75.00	75.00	75.00	65.00
MEMBER COPIES	B A					4000 4796	5320	4796	5200
STUDENT COPIES	B A					1017	1610	1017	1200
AFFILIATE COPIES	B A					50	70	50	60
INDIV NH SUBS	B A					191	1000	191	200
PRINT RUN (COPIES/ISSUE)	B A					5000	8000	8000	8000
PERCENT PAGE OIG RETURN	B %								
EST. PRINT COST PER PAGE	B \$					175.00	184.00	193.00	193.00
P PART OF MEMBER FEE. C COMBINATION RATE WITH _____									
D MEMBER CHOOSES ONE AS PART OF FEE.									
N NON SOCIETY OR NON SPONSORING SOCIETY BUT IEEE MEMBER RATE									

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL					PAGE 1 CODE 75		
DESCRIPTION	ACCOUNT NUMBER	-5	-4	-3	-2	-1	1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
INCOME									
MEMBERSHIP FEES									
MEM H C	B 0110100502						1.1		
TRANS #1 H C	B 0110100512						16.8		
AIR FREIGHT	B 0110100952						.4		
TOT MEMBERSHIP FEES	B						17.1		
A									
INTEREST INCOME									
INT-SHT TERM	B 0110002000						16.3		
A									
INVEST MGT FEE	B 0110099000						1.9		
A									
TOT INTEREST INCOME	B						14.4		
A									
TRANS & OTHER MAGS.									
NM SVCS IND 1ST	B 0110214001						75.0	14.3	19.0
A				.1		13.4			
NM ALL TRANS	B 0110214003						35.2	65.5	41.6
A							39.2		
MUL PAGE CHARGES	B 0110214000						7.3		
A									
TOT TRANS & OTHER M S	B						140.5	79.8	60.6
A				.1		59.9			
NON PERIODICAL SALES									
CONF PUB OOP NET	B 0110501001						2.0		
A						30.2	7.2		
SPECIAL PUBS	B 0110503000						.3		
A									
TOT NON PERIODICAL	B						2.3		
A						30.2	7.5		

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL					PAGE 2 CODE 76		
DESCRIPTION	ACCOUNT NUMBER	-5	-4	-3	-2	-1	1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
MEETINGS									
CONFERENCES	B 011060000						600.0	641.3	290.0
	A				190.9	25.9			
TOT MEETINGS	B						600.0	641.3	290.0
	A				190.9	25.9			
OTHER									
OTHER MISC	B 011089000								
	A				.3				
INT SOC TRF	B 011090000					40.0	53.2	53.2	
	A								
INT SOC TRF ASSP	B 011090001								11.4
	A					11.5			
INT SOC TRF CAS	B 011090004								12.0
	A					9.1			
INT SOC TRF IT	B 011090012								3.0
	A					3.1			
INT SOC TRF IE	B 011090013								.9
	A					.7			
INT SOC TRF EMB	B 011090018								5.6
	A					5.5			
INT SOC TRF CDR	B 011090019								9.4
	A					8.7			
INT SOC TRF CS	B 011090023								7.0
	A					6.5			
INT SOC TRF RA	B 011090024								4.4
	A					5.0			
INT SOC TRF SMC	B 011090028								5.8
	A					3.6			
INT SOC TRF LED	B 011090036								2.1
	A					1.8			
TOT OTHER	B					40.0	53.2	53.2	62.0
	A					39.9			
TOTAL INCOME	B				229.5	75.2	795.7	814.3	413.4
	A					179.2			

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL				PAGE 5 CODE 77			
DESCRIPTION	ACCOUNT NUMBER	-5	-4	-3	-2	-1	1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
EXPENSES									
TRANS & OTHER MAGS									
COMPOSITION	B 9110214001						112.0	88.3	92.6
	A						81.6		92.6
MICROFICHE	B 9110226050								
	A						.5		
INDEXING	B 9110226051						.8	1.2	1.2
	A						1.2		1.2
VOL PAGE CHARGES	B 9110226052								
	A						1.3		
EDITORIAL H&O	B 9110226060						13.8	20.6	20.2
	A						10.8		20.2
PUB ADMIN	B 9110226061						2.4	3.7	3.7
	A						2.4		3.7
SUBSCRIP HDLG	B 9110226062								9.4
	A						8.3		9.4
S/C EDT REIM EX	B 9110226070							10.0	13.5
	A				.3		1.2		13.5
MISC OTHER	B 9110809000								
	A						5.6		
TOT TRANS & OTHER M	B						129.0	123.8	140.7
	A						92.9		139.7
NEWSLETTERS									
NEWSLETTERS	B 9110201000								21.3
	A								21.3
TOT NEWSLETTERS	B								21.3
	A								21.3
NON PERIODICAL EXP									
CR CD CHARGES	B 9110502000								
	A						.1		
PDS & REPLNTS	B 9110502010								
	A						.4		

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REPORT PROCESSED 09/03/91 RUN I		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL					PAGE 4 CODE 78		
DESCRIPTION	ACCOUNT NUMBER	PRIOR YEAR BUDGETS AND ACTUALS					1991	1992	1992 ¹
		-5	-4	-3	-2	-1	BUDGET	IEEE FORECAST	S/C BUDGET
SPC PUB PTC	B 9110503001						7.2		
	A								
TOT NON PERIODICAL	B						7.7		
	A								
MEETINGS									
CONFERENCES	B 9110600000						500.0	500.0	130.0
	A						12.4		
TOT MEETINGS	B						500.0	500.0	130.0
	A						12.4		
STAFF ADMINISTRATION									
HQ ADMIN	B 9110729001						4.3		
	A								
TOT STAFF ADMINISTR	B						4.3		
	A								
HDQTS.SERV.TO COMM.									
ADCOM	B 9110741001							.2	.3
	A			.2		.7		.2	.3
TOT HDQTS.SERV.TO C	B			.2		.7		.2	.3
	A								
COMM.ACT.EXT.COSTS									
EXECUTIVE OFFICE	B 9110740002								10.9
	A						11.7		
ADCOM	B 9110741002							15.0	25.0
	A			4.1		13.7		21.8	
TECHNICAL	B 9110243002							15.0	15.0
	A			4.6					
STANDARDS	B 9110750010								5.0
	A								
TOT COMM.ACT.EXT.CO	B			8.9		25.4		30.0	36.8
	A								
OTHER EXPENSES									
MISC OTHER	B 9110009000							5.0	5.0
	A			2.0					

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL					PAGE 5 CODE 79		
DESCRIPTION	ACCOUNT NUMBER	-5	-4	-3	-2	-1	1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
INT SOC TRF	B 911090001 A						2.0		
INT SOC TRF	B 911090004 A						2.0		
INT SOC TRF	B 911090012 A						2.0		
INT SOC TRF	B 911090013 A						2.0		
INT SOC TRF	B 911090018 A						2.0		
INT SOC TRF	B 911090019 A						2.0		
INT SOC TRF	B 911090023 A						2.0		
INT SOC TRF	B 911090024 A						2.0		
INT SOC TRF	B 911090028 A						2.0		
INT SOC TRF-LED	B 911090036 A						2.0		
TOT OTHER EXPENSES	B A				2.6	20.0	5.0	5.0	5.0
TOTAL EXPENSES	B A				12.0	129.0	719.0	742.0	352.3
TOTAL OVERALL	B A				217.5	53.8	76.7	71.5	61.1

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REPORT PROCESSED 09/03/91 RUN 1		IEEE S/C BUDGET FOR THE PERIOD ENDING DECEMBER 31, 1992 NEURAL NETWORK COUNCIL					PAGE 6 CODE 80		
DESCRIPTION	ACCOUNT NUMBER	PRIOR YEAR BUDGETS AND ACTUALS					1991 BUDGET	1992 IEEE FORECAST	1992 S/C BUDGET
		-5	-4	-3	-2	-1			
TOT MEMBERSHIP FEES	B								
	A					17.1			
TOT INTEREST INCOME	B								
	A					14.4			
TOT TRANS & OTHER	B					35.2	140.5	79.8	
	A				.1	59.9		66.6	
TOT NON PERIODICAL	B						2.0		
	A				38.2	7.5			
TOT MEETINGS	B						609.0	681.5	
	A				190.9	25.9		290.0	
TOT OTHER	B						53.2	53.2	
	A				.3	54.4		62.8	
TOTAL INCOME	B					75.2	795.7	814.3	
	A				229.5	179.2		413.4	
TOT TRANS & OTHER	B					129.0	123.8	140.7	
	A				.3	92.9		139.7	
TOT NEWSLETTERS	B								
	A							21.3	
TOT NON PERIODICAL	B								
	A					7.7			
TOT MEETINGS	B						560.0	560.0	
	A					12.4		130.8	
TOT STAFF ADMINISTR	B								
	A					4.3			
TOT HDQTS. SERV. TO	B						.2	.3	
	A				.2	.7		.3	
TOT COMM. ACT. EXT. CO	B						30.0	36.6	
	A				8.9	25.4		56.0	
TOT OTHER EXPENSES	B						5.0	5.0	
	A				2.6	28.0		5.0	
TOTAL EXPENSES	B					129.0	719.0	742.0	
	A				12.0	138.6		352.3	
TOTAL OVERALL	B					53.8	76.7	71.5	
	A				217.5	40.6		61.1	

IJCNN'92-BEIJING Preliminary Budget

Estimated Attendees	500	600	700	800	1000	1200	1400
Conference Income	212100	245250	278400	311550	377850	444150	510450
Seed Money	50000	50000	50000	50000	50000	50000	50000
Total Income	262100	295250	328400	361550	427850	494150	560450
Conference Expenses	205000	219800	235600	250400	277000	305600	333200
Reimbursement to Seed Money	50000	50000	50000	50000	50000	50000	50000
Total Expenses	255000	269800	285600	300400	327000	355600	383200
Net(Income-Expenses)	7100	25450	42800	61150	100850	138550	177250

Post Conference Distribution:

Co-sponsor Entity	% Share
INNS	33.33
IEEE NNC	33.33
CNNC	33.34

INCOMES ESTIMATED

Estimated Attendees	500	600	700	800	1000	1200	1400
From outside China	300	400	500	600	800	1000	1200
From China*	200	200	200	200	200	200	200
Early-Member(20%)	17700	23600	29500	35400	47200	59000	70800
Early-Nonmember(15%)	15525	20700	25875	31050	41400	51750	62100
Early-student(5%)	1800	2400	3000	3600	4800	6000	7200
Late-Member(20%)	20700	27600	34500	41400	55200	69000	82800
Late-Nonmember(35%)	41475	55300	69125	82950	110600	138250	165900
Late-student(5%)	2250	3000	3750	4500	6000	7500	9000
Total abroad attendees	99450	132600	165750	198900	265200	331500	397800
Early-member,China(15%)	4425	4425	4425	4425	4425	4425	4425
Early-Nonmember,China(50%)	17250	17250	17250	17250	17250	17250	17250
Early-students,China(5%)	600	600	600	600	600	600	600
Late-Members,China(5%)	1725	1725	1725	1725	1725	1725	1725
Late-Nonmember,China(20%)	7900	7900	7900	7900	7900	7900	7900
Late-Student,China(5%)	750	750	750	750	750	750	750
Total China Attendees	32650	32650	32650	32650	32650	32650	32650
Donation from CIE	10000	10000	10000	10000	10000	10000	10000
Proceedings Sale@\$80,500	40000	40000	40000	40000	40000	40000	40000
Exhibition Surplus	10000	10000	10000	10000	10000	10000	10000
Tutorial Surplus	20000	20000	20000	20000	20000	20000	20000
Total Income	212100	245250	278400	311550	377850	444150	510450

* China attendees half fee.

EXPENSES ESTIMATED

Estimated Attendees	500	600	700	800	1000	1200	1400
Promotion							
Poster Printing	2000	2000	2000	2000	2000	2000	2000
Brochure Printing	18000	18000	18000	18000	18000	18000	18000
Postage	20000	20000	20000	20000	20000	20000	20000
Advertisement	10000	10000	10000	10000	10000	10000	10000
Public Reletions	10000	10000	10000	10000	10000	10000	10000
Total Promotion	60000	60000	60000	60000	60000	60000	60000
Social Functions							
Reception \$20	10000	12000	14000	16000	20000	24000	28000
Coffee Breaks \$18	9000	10800	12600	14400	18000	21600	25200
Banquet \$30	15000	18000	21000	24000	30000	36000	42000
Others \$2	1000	1200	1400	1600	2000	2400	2800
Total Social	35000	42000	49000	56000	70000	84000	98000
Publications							
Review Processing	4000	4000	4000	4000	4000	4000	4000
Proceedings(1000+att)\$30	45000	48000	51000	54000	60000	66000	72000
Program & Others \$10	5000	6000	7000	8000	10000	12000	14000
Absrtats \$8	4000	4800	5600	6400	8000	9600	11200
Total Publications	58000	62800	67600	72400	82000	91600	101200
Facilities/Equipments							
Conference Rooms	6000	7000	8000	9000	10000	11000	12000
Audio/Visual	4000	5000	6000	7000	8000	9000	10000
Plenary Speakers Travel	5000	5000	5000	5000	5000	5000	5000
Committee Travel	7000	7000	7000	7000	7000	7000	7000
Management	20000	21000	23000	24000	25000	28000	30000
Contingency	10000	10000	10000	10000	10000	10000	10000
Total	52000	55000	59000	62000	65000	70000	74000
Total Conf. Expenses	205000	219000	235600	250400	277000	305600	333200

Production & Mailing Costs

May 1991, 8pp ~8500 copies

Production*	\$900.00
Composition	215.00
Preparation for mailing	600.00
U.S. Postage	600.00
Non US Postage	2400.00
IEEE Admin Charge	300.00
Printing and Paper (est.)	1500.00
Total P&M Costs	\$6515.00
<u>Ad Revenue</u>	
<i>Intelligence</i>	\$100.00
<i>Hyperlogic</i>	350.00
Total Ad Revenue	\$450.00
Total Production Costs	\$6085.00
<i>Other Newsletter Costs</i>	
Postage and Printing for Ad Solicitation	\$71.00
Telephone Charges	36.00
Travel: IEEE Editors' Workshop	308.00
Total Other Costs	\$415.00

*Standard charge would be \$1200.00

Per Page Costs for Newsletters

	8pp	16pp	24pp	32pp
Production*	1240	2480	3720	4960
Composition	215	300	375	450
Labels, etc.	600	600	600	600
U.S. Postage	600	800	1100	1400
Non US Postage	2400	3000	3800	4600
IEEE Admin Charge	300	300	300	300
Printing & Paper (est.)	1500	2500	4000	5000
<i>Per issue Costs</i>	<i>\$6855</i>	<i>\$9980</i>	<i>\$13,895</i>	<i>\$17,310</i>
<i>Per Page Costs</i>	<i>\$857</i>	<i>\$624</i>	<i>\$579</i>	<i>\$541</i>

Responses to Ad Solicitation

A prospectus and rate sheet was sent to about 100 firms in March (conference exhibitors solicitation list).

Intelligence }
Hyperlogic } *Bought ads in first issue*

AbTech Corporation
Bart Kosko
INNS
Boston Univ
ecn neurocomputing
AIWare
Sent literature about short courses or products they offer

Harness Dickey & Pierce
Called in June to request ratesheet and ad specs

Franklin Spier Advertising *Ordered 1/2 page ad for next issue*

CHMT Society *Wants to exchange ads*

Newsletter Editorial Policies

We publish news items, letters, and reports on work in progress. Normally, technical contributions will not be reviewed. However the editor reserves the right to solicit technical reviews and to reject any contribution which is inappropriate for this newsletter.

Announcements for noncommercial scholarly conferences, workshops, etc. will be published gratis in our Calendar as space is available, with priority given to events sponsored by the Neural Networks Council.

For-profit short courses and seminars may be advertised at our standard classified or display rates. For more information about advertising in the newsletter, please contact the Editor.



Constituent Societies

Circuits and Systems
Communications
Control Systems
Engineering in Medicine and Biology
Industrial Electronics
Industry Applications
Information Theory
Lasers and Electro-Optics
Oceanic Engineering
Signal Processing
Robotics and Automation
Systems Man and Cybernetics

Newsletter of the IEEE
Council on Neural Networks
5630 Lakeside Drive
Pfafftown North Carolina 27040

Introducing...

The Newsletter of the IEEE Council on Neural Networks

The IEEE Council on Neural Networks comprises representatives of twelve IEEE Societies. The Council publishes the *IEEE Transactions on Neural Networks*, which has a larger circulation than all other neural networks journals combined (8000+), and is one of the sponsors of the Neural Networks Conference, IJCNN, which has become the largest neural network conference in the world. The Council also sponsors the International Fuzzy Systems Conference which will first be held in early 1992.

In order to serve this rapidly growing community, the Council began publication in May 1991 of a newsletter which is distributed to the subscribers to the *IEEE Transactions on Neural Networks*. The Newsletter, whose first editor is Dr. Wesley Snyder of the Bowman Gray School of Medicine at Wake Forest University, reports news of work in progress at different research institutes worldwide, activities of the various technical committees of the Council, letters, announcements of conferences, workshops, seminars, and other articles of interest to members of this community. It promises to be a lively complement to the prestigious *Transactions*.

Unlike the *Transactions*, the Newsletter carries advertising. If you are an exhibitor at a neural networks, an ad in the Newsletter will be an excellent and cost-efficient preview or followup to your exhibit. Our rate sheet is enclosed.

Cordially,

Rosalyn G. Snyder
Managing Editor
Newsletter of the IEEE Council on Neural Networks
TEL/FAX: 919-922-1633
e-mail: wes@mrips.bgsm.wfu.edu

IEEE Council on Neural Networks Newsletter Advertising Rates

Issues/year	x1	x2	x3	x4
Full page	\$1000	\$1900	\$2800	\$3750
Half page	600	1150	1700	2200
Third page	400	725	1050	14500
Quarter page	325	600	900	1000
Sixth page	250	475	625	800
Classified (per column inch):	\$50			

There is a \$25 surcharge for advertisements with halftones. Rates for color ads will be provided on request. The Newsletter is printed in a 8 1/2 X 11 three-column format with one inch side margins, 1.5 in. top margin, 1 in. bottom margin. Classified ads will be typeset. Advertisers must provide camera ready copy for display ads. Checks should be made payable to the IEEE. Send copy and purchase order or payment to:

Ms. Rosalyn Snyder, Managing Editor
IEEE Robotics & Automation Society Newsletter
5630 Lakeside Drive
Pfafftown North Carolina 27404
(919) 922-1633
email: wes@mrips.bgsm.wfu.edu

- 1 -

ACTIVITIES REPORT

NNC Liaison to IEEE Press
7/8/91 - IJCNN'91, Seattle, WA

Stamatios V. Kartalopoulos

Liaison established: January 26, 1991

Meeting with IEEE Press (2/14/91) to discuss:

- the process and responsibilities of the Liaison to IEEE.
- types of books for publication (re: book classification)
- sponsor's and author's responsibilities
- author's and sponsor's award/royalties
- time tables for book publications

Since then,

Books Sponsored by NNC:

1. Type of Book: Reprint Book

Editors: Dr. E. Sanchez-Sinencio and Dr. C. Lau

Title: Neural Networks in Circuits and Systems (working title)

Status: in preproduction

Book co-sponsored with Circuits and Systems Society

- 2 -

2. Type of Book: Reprint Book Derived from "Proceedings" special issue

Editor: Dr C. Lau

Title: "Neural Networks - Theoretical Foundations and Analysis"

Status: in preproduction

3. Type of Book: Reprint Book

Author: Prof. J. C. Bezdek

Title: "Fuzzy Models for Pattern Recognition"

Status: Proposal under IEEE review

Proposals:

1. Type of Book: Intermediate level Book

Author: Thomas Claudell

Title: Neural Networks

Status: Proposal submitted - under review

2. Type of Book: Introductory; non-specialist engineer

Author: L. Kamm and (?)

Title: Automation and Control Systems (and Neural Nets ?)

Status: seeking sponsorship - NNC interest ?

Other

1. IEEE needs to enrich its Neural Network portfolio with more than Reprint Books such as:

Series

Monographs

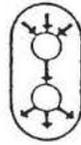
Advanced level books

2. Titles/subtitles should be more descriptive of the objectives of the book
3. If needed, IEEE may team-up with other publishing houses to increase market
4. IEEE encourages all members to consider book authorship.



IEEE

NEURAL NETWORKS COUNCIL



Patrick K. Simpson
Treasurer

June 25, 1991

Marilyn Prusan
Finance Administrator
IEEE Technical Activities
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331

PLEASE REPLY TO:
General Dynamics, Electronics Division
17436 Ashburton Rd.
San Diego, CA 92128 USA
Tel: (619) 573-2417
FAX: (619) 573-7400

Dear Ms. Prusan:

This is a request for two separate awards of \$250.00 each for *Kumpati S. Narendra* and *Kannan Parthasarathy*, recipients of the best paper award for IEEE Transactions on Neural Networks. Please generate two separate checks in the names of the above gentlemen using funds from the NNC's general account. Attached is a letter from Dr. Bradley Dickinson, IEEE NNC Awards Committee Chair, requesting this amount. I apologize for the short notice, but as the attached letter shows, this award decision has only recently been made. Because the awards will be presented by Dr. Dickinson on July 8, 1991, I would like you to send the checks to him at:

Bradley Dickinson
Dept. of Electrical Engineering
Princeton University
Princeton, NJ 08544

If next-day delivery is required to accommodate the tight schedule, please do so and deduct the amount for this service from the IEEE NNC general account.

If you have any comments or questions, please do not hesitate to contact me.

Sincerely,

Patrick K. Simpson
NNC Treasurer

Attachments: Award request
CC: R.J. Marks II, NNC President ←
B. W. Dickinson, NNC Awards Chair

PKS-51-91

IJCNN'93-NAGOYA, JAPAN

INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORKS

(Preliminary)

**NAGOYA CONGRESS CENTER, JAPAN
OCTOBER 25-29, 1993**

First Announcement

CONFERENCE

The IEEE Neural Networks Council (NNC) and the International Neural Networks Society (INNS) invite all persons interested in the field of Neural Networks for possible presentation at the Conference. Nagoya is located in the representative industrial site in Japan. There are frequent direct air services from lots of countries. Or you can easily access to Nagoya about 2 hours from Tokyo or 1 hour from Osaka by bullet train.

The Conference hosts tutorials on Oct. 25 and tours arranged probably on Oct. 29 and 30, 1993. Conference sessions will be held from Oct. 26-29, 1993. Proposals for tutorial speakers & topics should be submitted to professor Toshio Fukuda (address below) by Jan. 30, 1993.

TOPICS OF INTEREST (Tentative)

Original, basic and applied papers in all areas of Neural Networks & their applications are being solicited for consideration as oral or poster presentations in (but not limited to) the following topics:

Associative Memory	Optical Neurocomputers	Neuro-physiology
Electrical Neurocomputer	Optimization	Hybrid System(AI, Neural
Image Processing	Robotics & Mechatronics	Networks, Fuzzy System)
Invertebrate Neural Networks	Sensation & Perception	Mathematical Methods
Machine Vision	Sensorimotor Control System	Human Interface
Neurocognition	Supervised Learning	Applications
Neuro-Dynamics	Unsupervised Learning	

Contact Address:

Professor Toshio Fukuda
Dept. of Mechanical Engineering, Nagoya University
Furo-cho, Chikusa-ku, Nagoya 464-01, JAPAN
Phone: +81-52-781-5111 (ext. 4478)
FAX: +81-52-781-9243
E-Mail: d43131a@nucc.cc.nagoya-u.ac.jp



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL RESEARCH
ARLINGTON, VIRGINIA 22217-5000

IN REPLY REFER TO
June 26, 1991

Professor Roy S. Nutter, Jr.
West Virginia University
821 Electrical Engineering
P. O. Box 6101
Morgantown, WV 26506

Dear Prof. Nutter:

Due to the fact that I will be arriving at Seattle on the evening of July 8 and therefore will not be able to attend the NNC Adcom meeting, enclosed is a short report concerning the present status of IJCNN'92 Baltimore. Please feel free to use it at the meeting.

As you may or may not know, I had sent two different budget proposals in May to Bob Marks, both of which reflected the INNS requirement that the registration fee be less than \$200 for members. Both proposed budgets have been approved by the INNS President P. Werbos and tentatively approved by Bob Marks pending concurrence by the NNC. The enclosed budget (encl. (2)), with February 1, 1992 as the early-early registration deadline at \$195 for members, will be our working budget.

But since we do not notify authors about acceptance of their paper until March 6, 1992, our present plan is to allow authors to register at the early-early rate until April 20, 1992. This fact will be discretely sent out together with the acknowledgment letter upon receipt of submitted papers. Thus the actual working budget will be somewhere between enclosure (2) and another "approved" budget (encl. (3), with the March 30, 1992 early-early deadline.) I am not sure how to handle this, but I assume this approach will be approved by the NNC.

The status report is self-explanatory. If there is any question, please either call me at (703)696-4961 or catch me at Seattle.

Sincerely yours,

A handwritten signature in cursive script that reads "Lau".

Clifford Lau
Chair, IJCNN'92 Baltimore

Cc: Dr. Robert J. Marks, II

IJCNN'92 Baltimore

June 7 - 11, 1992

Baltimore Convention Center

Organizing Committee Meeting

Room 604

8:00 pm - 10:00 pm

July 9, 1991

Program Committee Meeting

Room 606

8:30 pm - 10:00 pm

July 9, 1991

IJCNN'92 Baltimore

International Joint Conference on Neural Networks
June 7 - 11, 1992

- * **Purpose:** To bring together research scientists and engineers to discuss recent advances in neural network research, and to showcase the latest developments in neural network technology.

- * **Dates:** June 7, 1992 (Sunday)
Day of tutorials

June 8 - 11, 1992 (Monday - Thursday)
Conference and exhibits

- * **Place:** Baltimore Convention Center
Baltimore, Maryland

- * **Sponsors:** IEEE (lead)

INNS

IJCNN-92 Baltimore

Organization

- * General Chair: Dr. Clifford Lau, ONR
- * Honorary Chair: Prof. Bernard Widrow, Stanford
- * Program Chair:
Committee: Prof. John Shynk, UC S. Barbara
The usual suspects, letters
will go out shortly
- * Finance Chair: Dr. Pat Shoemaker, NOSC
- * Publications Chair: Prof. Fathi Salam, Michigan S. U.
- * Exhibits Chair: Dr. Herbert Wang, Rockwell S.C.
- * Special Sessions: Dr. Andrew Penz, Texas Instr.
- * Tutorials Chair: Prof. Richard Andersen, MIT
- * Local Arrangements: Prof. Andreas Andreou, JHU
- * Volunteers Chair: Ms Nina Kowalski, JHU
- * Far East Liaison: Prof. Shun-ichi Amari, U. Tokyo
Prof. Toshio Fukuda, Nagoya U.
- * European Liaison: Prof. Rolf Eckmiller, Germany
- * IEEE Liaison: Dr. Roy S. Nutter, W. Virginia U.
- * INNS Liaison: Dr. Judith Dayhoff, U. Maryland
- * Meeting management: Nomi Feldman

IJCNN'92 Baltimore
June 7 - 11, 1992
Baltimore Convention Center

Status (July 9, 1991)

- * Baltimore Convention Center has been reserved.
Contract signed.
- * About 1000 rooms in the surrounding hotels have
been reserved. Contracts signed.
- * Meeting management firm selected (N. Feldman).
Contract signed.
- * Operating budget has been approved by both
IEEE and INNS in May, 1991.
- * Organizing committee fully in place.
Program committee fully identified.
- * Publicity brochures prepared:
Call for Papers.
Call for Tutorials.
Call to organize special sessions.
Exhibit information.
- * Advertising campaign started, a lot more to come.

IJCNN'92 Baltimore
June 7 - 11, 1992
Baltimore Convention Center
Time line

- | | |
|-------------------|--|
| Jan. 1991 | Organizing committee identified.
Preliminary budget submission. |
| May 1991 | Operating budget approved by IEEE and
INNS |
| July 9, 1991 | First organizing and program committee
meetings.
Limited mailing of Call for Papers. |
| Dec. 2-5, 1991 | Second organizing committee meeting.
(At NIPS, Denver, CO.)
Mass mailing of Call for Papers. |
| Jan. 15, 1992 | Camera ready manuscripts due
(Limited to 6 pages max. original + 5 copies.) |
| Feb. 1, 1992 | Deadline for early-early registration |
| Feb. 28, 1992 | Second Program committee meeting.
(Location to be determined, likely San Diego.) |
| Mar. 6, 1992 | Notification of acceptance of papers.
(Authors will be allowed to register as early-early.) |
| Apr. 20, 1992 | Early registration deadline. |
| May 22, 1992 | Proceedings and program ready. |
| June 7 - 11, 1992 | IJCNN'92 Baltimore |

IJCNN'92 Baltimore General Policies

- * Early-early registration before Feb. 1, 1992 at \$195 for members. Early registration before Apr. 20, 1992 at \$245 for members. Late registration at \$295 for members.
- * For non-members, the additional \$40 will be applied to their membership application to either IEEE or INNS if done at the conference.
- * Authors will be allowed to register at early-early rate until Apr. 20, 1992. Thereafter regular late rate.
- * Financial aid to travel to organizing committee meeting is minimal and is considered on a case by case basis. There will be no funding for program committee travel.
- * Student registration will get no conference proceedings and no dinner banquet. Proceedings can be purchased at reduced price (\$30?)
- * Volunteers will be treated like students but with their registration fees waived. Those who volunteer for tutorials will be allowed to attend the tutorial while working, but not the conference.
- * Tutorial speakers will be paid \$1,000 plus travel expenses (round-trip airfare and 2 nights lodging.) If they want to attend conference, they will be allowed to register at student rate, and pay for their own additional lodging.
- * Travel expenses for plenary speakers (5 planned, one for each day, and one after dinner) will be paid (round-trip airfare and 2 nights lodging.) If they want to attend conference, registration fees are waived, but they will have to pay for their own additional lodging.
- * Travel expenses for General Chair, Program Chair, and Finance Chair are paid and registration fees waived (for General Chair and Finance Chair, that may not be possible or necessary since they are government employees.)
- * For exhibitors, nominally two persons will be allowed per booth. More persons will need to purchase additional booths or to register. Exhibitors will not get proceedings or dinner banquet.
- * Everyone else must register, even VIPs. There will be no exceptions.

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before February 1, 1992		\$195	\$235			
3	Before April 20, 1992		\$245	\$285	\$75		
4	After April 20, 1992		\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (5%)		\$11,700	\$13,650	\$15,600	\$17,550	\$19,500
16	Early - member (20%)		\$58,800	\$68,600	\$78,400	\$88,200	\$98,000
17	Early-early nonmem. (2%)		\$5,640	\$6,580	\$7,520	\$8,460	\$9,400
18	Early - nonmember (8%)		\$27,360	\$31,920	\$36,480	\$41,040	\$45,600
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (25%)		\$88,500	\$103,250	\$118,000	\$132,750	\$147,500
21	Late - nonmember (20%)		\$80,400	\$93,800	\$107,200	\$120,600	\$134,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$292,200	\$340,900	\$389,600	\$438,300	\$487,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other Income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$524,200	\$590,150	\$656,100	\$722,050	\$788,000

	A	B	C	D	E	F	G
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$524,200	\$590,150	\$656,100	\$722,050	\$788,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$574,200	\$640,150	\$706,100	\$772,050	\$838,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$40,500	\$79,450	\$116,200	\$150,750	\$185,300

	A	B	C	D	E	F	G
1			Member	Non-member	Student		
2	Before March 30, 1992		\$195	\$235			
3	Before May 15, 1992		\$245	\$285	\$75		
4	After May 15, 1992		\$295	\$335	\$90		
5	One day		\$100	\$120			
6	Tutorials -one	\$125					
7	-two	\$235					
8	- three	\$330					
9	Exhibitors (per booth)	\$950					
10	Publisher (per booth)	\$650					
11	Proceeding sales	\$80					
12							
13	Estimated attendees		1,200	1,400	1,600	1,800	2,000
14							
15	Early-early - member (20%)		\$46,800	\$54,600	\$62,400	\$70,200	\$78,000
16	Early - member (15%)		\$44,100	\$51,450	\$58,800	\$66,150	\$73,500
17	Early-early nonmem. (5%)		\$14,100	\$16,450	\$18,800	\$21,150	\$23,500
18	Early - nonmember (15%)		\$51,300	\$59,850	\$68,400	\$76,950	\$85,500
19	Early - student (10%)		\$9,000	\$10,500	\$12,000	\$13,500	\$15,000
20	Late - member (15%)		\$53,100	\$61,950	\$70,800	\$79,650	\$88,500
21	Late - nonmember (10%)		\$40,200	\$46,900	\$53,600	\$60,300	\$67,000
22	Late - student (10%)		\$10,800	\$12,600	\$14,400	\$16,200	\$18,000
23							
24	Registration income		\$269,400	\$314,300	\$359,200	\$404,100	\$449,000
25							
26	One day income	4%	\$4,800	\$5,600	\$6,400	\$7,200	\$8,000
27							
28	Tutorial income - ave 2 ea	35% after	\$98,700	\$115,150	\$131,600	\$148,050	\$164,500
29							
30	Exhibit income	40 booth	\$38,000	\$38,000	\$38,000	\$38,000	\$38,000
31							
32	Publisher income	10 booths	\$6,500	\$6,500	\$6,500	\$6,500	\$6,500
33							
34	Proceeding sales	1000 cps	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
35							
36	Other income (Int., etc.)		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
37							
38							
39	Total income		\$501,400	\$563,550	\$625,700	\$687,850	\$750,000

	A	Robert J. Marks II Library Archive	E	F	G		
1	Estimated attendees		1,200	1,400	1,600	1,800	2,000
2	Marketing/promotion						
3	Poster printing		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
4	Brochure printing (75,000)		\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
5	Two mailings		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
6	Advertisements		\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
7	Public Relations		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
8							
9	Total Marketing		\$72,000	\$72,000	\$72,000	\$72,000	\$72,000
10	Social functions						
11	Sunday evening reception	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
12	Coffee breaks	\$20	\$24,000	\$28,000	\$32,000	\$36,000	\$40,000
13	Dinner banquet	\$50	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000
14	Others (Press, etc)	\$2	\$2,400	\$2,800	\$3,200	\$3,600	\$4,000
15							
16	Total Social		\$98,400	\$114,800	\$131,200	\$147,600	\$164,000
17	Publications						
18	Review processing/ mailing		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
19	Proceedings (2000+attend)	\$30	\$96,000	\$102,000	\$108,000	\$114,000	\$120,000
20	Abstracts	\$10	\$12,000	\$14,000	\$16,000	\$18,000	\$20,000
21	Programs and tote bag etc.	\$13	\$15,600	\$18,200	\$20,800	\$23,400	\$26,000
22							
23	Total Publications		\$128,600	\$139,200	\$149,800	\$160,400	\$171,000
24	Meeting management exp.						
25	Management		\$39,000	\$39,000	\$41,200	\$45,600	\$50,000
26	Insurance/bonding		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
27	Security/guards		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
28	Administration and supplies		\$13,500	\$13,500	\$13,500	\$13,500	\$13,500
29	Auditing		\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
30							
31	Total Management		\$67,000	\$67,000	\$69,200	\$73,600	\$78,000
32	Facilities/equipment						
33	Convention center rental		\$12,700	\$12,700	\$12,700	\$12,700	\$12,700
34	Exhibit management		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
35	Exhibit marketing		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
36	Audio/visual		\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
37							
38	Total Facilities		\$44,700	\$44,700	\$44,700	\$44,700	\$44,700
39	Committee expenses						
40	Tutorial speaker travel	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
41	Tutorial speaker fees	\$1,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
42	Tutorial books and supplies		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000
43	Tutorial audio/visual		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
44	Tutorial coffee breaks		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
45	Plenary speaker travel	\$1,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
46	Contingency		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
47	Committee travel		\$7,000	\$7,000	\$7,000	\$7,000	\$7,000
48							
49	Total Committee/tutorial		\$73,000	\$73,000	\$73,000	\$73,000	\$73,000
50							
51	Total Conf. Expenses		\$483,700	\$510,700	\$539,900	\$571,300	\$602,700

	A	B	C	D	E	F
1	Estimated Attendees	1,200	1,400	1,600	1,800	2,000
2						
3	Conf. Income	\$501,400	\$563,550	\$625,700	\$687,850	\$750,000
4	IEEE Seed Money	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
5						
6	Total income	\$551,400	\$613,550	\$675,700	\$737,850	\$800,000
7						
8	Conf. Expenses	\$483,700	\$510,700	\$539,900	\$571,300	\$602,700
9	Reimbursement to IEEE	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
10						
11	Total Expenses	\$533,700	\$560,700	\$589,900	\$621,300	\$652,700
12						
13	Net (income - expenses)	\$17,700	\$52,850	\$85,800	\$116,550	\$147,300

(Prepared 7/1/91 by EA Casey)

1994 IEEE WORLD INTELLIGENCE CONFERENCE
WASHINGTON, DC

SITE SEARCH REPORT

1. Sheraton Washington Sunday-Thursday
July 31 - August 11, 1994

1991 Rates:	<u>Rack</u>	<u>Group</u>
Single:	\$176 - \$226	\$128
Double:	\$206 - \$256	\$143

Guarantee 30% off 1994 rack for meeting.

2. Washington Hilton and Towers Sunday-Thursday
June 19-30, 1994

1991 Rates:	<u>Rack</u>	<u>Group</u>
Single:	\$170 - \$210	\$130-140-150
Double:	\$190 - \$230	\$150-160-170

Maximum 7%-10% increase for 1994.

SCHEDULE

Sunday	ICNN Tutorials
Monday	ICNN Technical Sessions
Tuesday	ICNN Technical Sessions
Wednesday	ICNN Technical Sessions
Thursday	ICNN Technical Sessions
Friday	FUZZ-IEEE Tutorials
Saturday	FUZZ-IEEE Technical Sessions
Sunday	FUZZ-IEEE Technical Sessions
Monday	FUZZ-IEEE Technical Sessions
Tuesday	FUZZ-IEEE Technical Sessions
Wednesday	Satellite Meetings
Thursday	Satellite Meetings

/eac

(Prepared 7/2/91 by N. Feldman)

IEEE 1994 World Intelligence Conference

ALTERNATIVE SCHEDULE

Saturday	ICNN Tutorials
Sunday	ICNN Technical Sessions
Monday	ICNN Technical Sessions Satellite Meetings
Tuesday	ICNN Technical Sessions FUZZ-IEEE Tutorials
Wednesday	ICNN Technical Sessions FUZZ-IEEE Technical Sessions
Thursday	FUZZ-IEEE Technical Sessions Satellite Meetings
Friday	FUZZ-IEEE Technical Sessions
Saturday	FUZZ-IEEE Technical Sessions

Fuzzy and Neural Systems, and Vehicle Applications '91

November 8 and 9, 1991, Tokyo, Japan

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: IEEE Industrial Electronics Society
Japan Society for Fuzzy Theory and Systems
Society of Instrument and Control Engineers
Robotics Society of Japan

The International Roundtable Discussion on "Fuzzy and Neural Systems, and Vehicle Applications" is scheduled for November 8 and 9, 1991 at the University of Tokyo.

This meeting will focus on applications of Fuzzy and Neural systems to vehicles. Informal communication among attendees is encouraged through a single session format. The presentations include research projects at major car manufactures in addition to world leading academic groups in the field of Fuzzy and Neural Systems as listed in the preliminary program.

Preliminary Program

Session chairs include:

S. Amari (U of Tokyo)	C.G. Atkeson (MIT)
F. Harashima (U of Tokyo)	K. Hirota (Hosei U.)
E.H. Ruspini (SRI)	C. Koch (Cal. Tech. of Inst.)
M. Sugeno (Tokyo Inst. Tech.)	M. Togai (Togai I. L.)
L.A. Zadeh (U of California)	

Friday, November 8, 1991 (10am - 6pm)

1. T. Mingers, S. Roukheh, A. Titil; MIRGAS, INS, Siemens; France
Application of Fuzzy Control to the Design of a Car Suspension
2. Y. Uyeda; Omron; Japan
Improvement of Chassis Control by a Fuzzy Controller
3. K.A. Marko, J.V. James, R.J. Hampo; Ford; USA
Vehicle Applications of Artificial Neural Systems: Diagnostics and Control
4. M. Lee; U of Gent; Belgium
Automatic Analysis and Diagnosis of Automobiles Using Neural Networks
5. H. Takahashi; Nissan; Japan
A Method for Predicting the Driving Environment Using Fuzzy Reasoning
6. M. J. Patyra; Carnegie Mellon U; USA
Implementation of Fuzzy Operations with Neural Networks
7. C. W. de Silva; U of British Columbia; Canada
A Generalized Fuzzy Control Hierarchy
8. P. A. Ligomenides, L.B. Jump, Y-S Chlou; U of Maryland, Caelum Res Corp; USA
A Reconfigurable Ring Architecture for Large Scale Neural Networks
9. P. Basehor, J.T. Vestrebsky; Neuralogix; USA
Innovative Architectural and Theoretical Considerations Yield Efficient Fuzzy Logic Controller VLSI Design
10. C. G. Atkeson; MIT; USA
Memory-Based Learning of a Nonlinear Vehicle Model

11. L.A. Feldkamp, G.V. Pustorius, L.I. Davis, F. Yuan; Ford; USA
Decoupled Kalman Training of Neural Controllers for Automotive Systems
12. J-S R. Jang, U of California, USA
A Self-Learning Fuzzy Controller with Applications to Tracking and Parking Problems
13. Y. Hashimoto, T. Shigematsu, K. Ohnishi, N. Ohta; Toyota; Japan
Application of a Self-Tuning Fuzzy Algorithm to an Automatic Steering Control
14. T. Hessburg, M. Tomizuka; U of California; USA
A Fuzzy Rule Based Controller for Automotive Vehicle Guidance
15. T. Suzuki, K. Aoki, T. Inoue, H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Real-Time Adaptive Control of Vehicle Speed, using Neural Networks applied to Electronically Controlled Braking Systems
16. Aurrand-Lions, L. Fournier, P. Jarri, M. de Saint Blancard, E. Sanchez; U of Aix-Marseille II, Peugeot; France
Application of Fuzzy Control for ISIS vehicle braking
17. H. Ohno, A. Takahashi, G. Sugimoto; Toyota; Japan
Tracking Control for an Autonomous Mobile Robot by Neural Networks
18. E. H. Ruspini, D.C. Ruspini; SRI International, NASA; USA
Autonomous Vehicle Motion Planning Using Fuzzy Logic
19. L. Huang, W. Kao, H. Oshizawa; ZEXEL; USA
A Fuzzy Map-Matching Algorithm for Automotive Navigation Systems

Saturday, November 9, 1991 (10am - 8pm, including banquet)

1. T. Hrycej, Daimler-Benz, Germany
Model-Based Learning of a Neural Spacecraft Attitude Controller
2. S. Chiu, S. Chand; Rockwell International; USA
Fuzzy Controller Design and Stability Analysis for Roll Maneuver of an Aircraft Model
3. R.N. Lea, Y. Jani, M.G. Murphy, M. Togai; NASA, LinCom, U of Houston, TIL; US/
Design and Performance of a Fuzzy Logic Based Vehicle Controller for Autonomous Collision Avoidance
4. C. Koch; California Institute of Technology; USA
Real-Time Computer Vision and Robotics Using Analog VLSI Circuits
5. R. Fujlaka; Omron; Japan
An Anticollision System Concept
6. G.S. Pingall, R. Jain; U of Michigan; USA
A Highly Parallel Architecture for Extraction of Road Boundaries for Autonomous Vehicle Guidance
7. T. Hanamoto, A. Sugiyama, T. Takatsu, M. Nakajima, Takahashi; Komatsu, Ministry of Construction; Japan
An Operation Assistance System in Small-Bore Pipe-Jacking
8. E. C. Yeh, J.C. Bin; National Tsing Hua University; Taiwan
Fuzzy Control for Self-Steering of a Sailboat
9. A. Takayama, A. Hirako; Isuzu; Japan
Adaptive Cruise Control According to Optimal Distance
10. K.P. Venugopal, A.S. Pandya, R. Sudhakar; Florida Atlantic U; USA
An Adaptive Control System for Autonomous Underwater Vehicles
11. L.A. Zadeh; U of California; USA
Fuzzy Logic - Today and Tomorrow
12. I. Sakai, M. Togai, S. Sakaguchi, T. Haga; Honda, TIL; Japan
Shift Scheduling Method for Automatic Transmission Vehicles Using Fuzzy Logic

CALL FOR PAPERS

Intelligent Vehicles '92

July 1 and 2, 1992,
At a Resort Hotel on a Golf Course in Suburbs of Detroit, USA

Organized by: IEEE/IES Intelligent Vehicle Subcommittee
Cooperation with: American Society of Mechanical Engineers
IEEE Vehicular Technology
IEEE Neural Nets
Japan Society for Fuzzy Theory and Systems
Robotics Society of Japan
Society of Automotive Engineers, International
Society of Automotive Engineers, Japan
Society of Instrument and Control Engineers
(Some of them listed above are in the application process and
cooperations are not approved yet.)

The IEEE/IES Intelligent Vehicle Subcommittee is organizing international meetings once every year. In 1991, for example, an international meeting will be held on "Fuzzy and Neural Systems, and Vehicle Applications" on November 8 and 9, 1991 in Tokyo. The meeting in 1990 was on "Vision-Based Vehicle Guidance". For 1992, we are planning to have multiple sessions. We will consider publishing a book, in addition to the proceedings, by selecting good papers presented in the special session as is the traditional of this workshop. This workshop will be held in conjunction with IROS '92 which will be held in North Carolina from July 7, 1992.

Topics: **Communication for Intelligent Vehicles (Special Session)**
 Real-Time Traffic Control
 Navigation
 Sensing for Intelligent Vehicles
 Collision Avoidance
 Road following
 Control for Intelligent Vehicles
 Fuzzy Logic
 Neural Nets
 Intelligent Power Train Controller
 Other Intelligent Vehicle Related Issues

Deadlines: December 1, 1991 for one-page abstracts
 February 1, 1992 for acceptance notices
 April 1, 1992 for camera-ready papers

Please send your business card (or a card with your address, phone, fax, and e-mail) together with the following reply to

Ichiro Masaki, Computer Science Department
General Motors Research Laboratories,
30500 Mound Road, Warren, Michigan, 48090-9055, USA
Phone: (USA) 313-986-1466, FAX: (USA) 313-986-9356
CSNET:MASAKI@GMR.COM

Reply for Intelligent vehicles '92 and/or IROS '92:

- ___ A proposal for a special session is enclosed.
- ___ I intend to submit a paper.
- ___ I am interested in attending the meeting.
- ___ Put my name on the mailing list.

NEURAL NETWORKS PRESIDENTS' FORUM

Sponsored by
THE IEEE NEURAL NETWORKS COUNCIL

Participants:

Professor Zong Sha, President
Chinese Neural Networks Committee
CHINA

Professor Rolf Eckmiller
Joint European Neural Network Initiative
EUROPE

Kunihiko Fukushima, President
Japanese Neural Networks Society
JAPAN

Professor Witali L. Dunin-Barkowski, President
Russian Neural Network Society
USSR

Moderator

Professor Robert J. Marks II, President
IEEE Neural Networks Council

Tuesday, July 9, 1991

6:30 p.m. - 8:00 p.m.

Room 612

**Washington State Convention Center
Seattle, Washington**





ISSNNet, Inc.
P.O. Box 15661
Boston, MA 02215 USA
Re: IEEE / / ISSNNet sponsorship

July 5, 1991

IJCNN Sponsorship recipients

Dear IJCNN Sponsorship Recipient,

If you are author or co-author of an article which was accepted for ORAL presentation, you are eligible for a sponsorship to cover your registration and/or part of your travel expenses. Although these numbers may vary slightly depending on the number of attending students, we expect sole authors to receive approximately \$260, and joint authors to receive approximately \$50.

\$200

You must be presenting the article yourself to be eligible!

In order to receive your refund, you must present official proof of enrollment as a full-time student at a recognized academic institution. Official proof consists of student identification *and* a letter from your advisor, department chair, or school registration office, and must be presented at the ISSNNet booth (exhibit booth #31) BEFORE 5pm, Wed, July 10.

In addition, you will be asked to submit receipts for an amount at least equal to the award, and you will be asked to fill out a reimbursement form, depending on which sponsoring society will reimburse you.

Finally, we ask that at the beginning of your talk you briefly acknowledge this sponsorship, by stating that a portion of your expenses are paid through this joint sponsorship program by IEEE, and ISSNNet.

Congratulations again on your accepted work, and good luck with your presentation.

Sincerely,

A handwritten signature in cursive script, appearing to read "Paolo Gaudiano".

Paolo Gaudiano, Vice-President
ISSNNet, Inc.

Dear ISSNNet member,
we are trying to compile a list of existing academic programs that support research in NNets. Please take the time to fill out as much of this questionnaire as you can. This information will be made available electronically upon request. Feel free to include additional remarks on the back of this sheet.

Your Name & Address: _____

Your School: _____

Your position: Student Faculty Other (Please specify: _____)

If student, at what level/year? _____

Does your school have a department/academic program in NNets? Yes No

If so, what degrees are offered? _____

If not, does your school offer NNet courses? Yes No

Approximately how many NNet courses are offered at your school? _____

Is your school/department accepting students for Neural Net research? Y N

If so, at what level? Undergraduate Graduate Postdoctoral

Please describe the NNet research that takes place at your School of which you are aware. Indicate briefly how many faculty and students work in Neural Nets, and their main area of interest.

Is there an address (surface or e-mail) that we can contact for further information? If so, please include it here:

Thank you for answering these questions. If you are unable to return the completed form to one of our representatives, please mail the completed form to the following address (or send electronic mail):

ISSNNet Academic Programs
PO Box 15661
Boston, MA 02215, USA
e-mail: issnnet@park.bu.edu (INTERNET/ARPANET)

IEEE NNC CONFERENCE VOLUNTEER ORGANIZATION AGREEMENT

The purpose of this document is to

- 1. provide guidelines to be used in the conference organization of volunteers for IEEE Neural Network Council (NNC) meetings;*
- 2. define the responsibilities, benefits, and budget for the organization selected to coordinate the volunteers for the IEEE NNC conferences;*
- 3. define the responsibilities and benefits for individuals working as volunteers for IEEE NNC conferences.*

1 Conference Volunteer Organization Committee

1.1 Selection

The organization selected to coordinate the volunteers for the IEEE NNC conferences (hereafter referred to as the Conference Volunteer Organizing Committee) shall be chosen by the IEEE NNC Conference Organizing Committee. In order of priority, the organizations considered shall be

1. IEEE student chapters local to the conference.
2. International Student Society for Neural Networks (ISSNNet).
3. Other student neural network organizations not listed in this document.
4. IEEE non-student chapters local to the conference.
5. Other non-student neural network organizations not listed in this document.

1.2 Responsibilities

It is the responsibility of the Conference Volunteer Organizing Committee to select an individual (hereafter referred to as the Conference Volunteer Committee Chair) to oversee the coordination of the volunteers. The Conference Volunteer Committee Chair shall have the following responsibilities:

1. Maintain contact with appropriate members of the IEEE NNC Conference Organizing Committee to ensure that the expected volunteer positions are filled with reliable volunteers. It shall be the responsibility of the IEEE NNC Conference Organizing Committee Chair to provide the Conference Volunteer Committee Chair with a list of the IEEE NNC Conference Organizing Committee members and the information necessary for contacting the appropriate individuals.

2. Organize individuals selected to work as volunteers for the IEEE NNC conferences. This shall include: 1) the recruitment of volunteers; 2) the positioning of the volunteers during the conference; 3) overseeing the volunteers during the tutorials.
3. Contact the IEEE NNC Conference Tutorials Chair and work with the IEEE NNC Conference Tutorials Chair to make sure that all tutorials have at least 3 volunteers per tutorials.
4. Contact the IEEE NNC Finance Chair to approve a budget for the Conference Volunteer Committee. In addition, the Conference Volunteer Committee Chair shall document all expenditures of the Volunteer Committee relative to the Conference Volunteer Committee Budget and provide a final report of the expenditures to the IEEE NNC Conference Financial Chair no later than 30 days after the conference.
5. Distribute the conference proceedings to the volunteers.
6. Order t-shirts to be worn by the volunteers throughout the conference.
7. Ensure that all conference standards in the organization of the volunteers are maintained.

1.3 Budget

The Conference Volunteer Committee Budget shall account for the following (*Suggested amounts*):

1. For each volunteer, the cost of conference registration and one set of proceedings. (*variable*)
2. Traveling expenses for the Conference Volunteer Committee Chair. Traveling Committee Chair getting to/from the conference location, hotel accommodations throughout the conference at a location most convenient and reasonable to the conference, meals or per diem allotted for meal coverage during the conference. If applicable any parking expenses shall also be considered. In the event that the Conference Volunteer Committee Chair is required to attend any IEEE NNC Conference Organizing Committee meetings, traveling expenses are to be provided. (*\$2000.00*)
3. Volunteer t-shirts which are to be worn by the volunteers during the conference. Any t-shirts left over shall be given to the IEEE NNC Conference Organizing Committee. (*\$600.00*)
4. A volunteer welcome/thank-you party. (*\$500.00*)
5. Expenses incurred in contacting volunteers or other members of IEEE NNC Conference Organizing Committee. (*\$250.00*)

1.4 Benefits

In return for their efforts, the organization supplying the the Conference Volunteer Organizing Committee shall be given a donation, *an amount yet to be determined*, from the IEEE NNC to be used in support of the organization's purpose. This donation is independent of and shall not be included as part of the Conference Volunteer Committee budget.

2 Conference Volunteer Organization

2.1 Volunteer Requirements

Each volunteer for the conference will be required to work approximately 16-20 hours. Volunteers will be organized into groups, depending upon the position they select. Volunteer shifts are broken into morning and afternoon shifts. The particular time for each shift is dependent on the conference times. Each group shall work the same assigned position, the same shift throughout the conference. Assignment shall be given on a first commit, first assign basis. The number of volunteer positions shall be sufficient to allow for periodic breaks throughout the shift of a volunteer. In addition to the shift assignment, all volunteers are required to assist at all conference social events.

2.2 Volunteer Benefits

In exchange for their time and efforts volunteers will be given

1. full admittance to all conference events including all social events, and excluding tutorials;
2. a set of conference proceedings upon completion of their work;
3. a t-shirt to be worn during their shifts;
4. a welcome/thank-you party.

2.3 Conference Volunteer Positions

The following conference positions will be filled by volunteers (*Suggested number of volunteers*):

Stuffing Conference Proceedings (7) - The day prior to the first day of conference registration, volunteers will be required to work all day preparing the conference proceedings. Those volunteers working this position will not be required to work any other conference position except to assist at all conference social events.

Poster Sessions (AM session: 6. PM session: 4) - For each Poster Session, volunteers will be used to assist presenters in putting up and taking down poster presentations. In addition, in the event that Poster Sessions are located in the same area as the Exhibits, and the Poster Sessions are open before the Exhibits are open, volunteers will be used

to ensure that conference participants do not enter the Exhibit area. In this case, more volunteers may be required during the morning Poster Session.

Technical Sessions (6 per session) - For each Technical Session, volunteers will be used to check badges. Any one without a badge will not be admitted into the technical session and will be referred to the registration desk.

Evening Plenary Sessions (6) - For all evening plenary sessions, volunteers will be used to check badges. Any one without a badge will not be admitted into the plenary session and will be referred to the registration desk.

Social Events - All volunteers are required to assist at all conference social events. Volunteers will be used to check badges at the door. Any one without a badge will not be admitted into the social event and will be referred to the registration desk.

For liability and/or accounting reasons, volunteers will not be assigned to the following areas:

Registration

Exhibits

Speaker Ready Room

Press Room

Distribution of Proceedings

2.4 Tutorial Volunteer Positions

Working the tutorials shall not be a volunteer requirement, however only volunteers that have been assigned conference volunteer positions shall be allowed to sign up for tutorial volunteer positions. Volunteers choosing not to work the tutorials will not be allowed into any of the tutorials. For each tutorial a minimum of 3 volunteers will be used to check badges/take tutorial tickets, and hand out lecture notes. Any one without a badge/ticket will not be admitted into the tutorial and will be referred to the registration desk. Volunteers may only follow the tutorial for which they are working, but must give priority to their assigned duties. In the case that lecture notes are provided, volunteers shall not receive lecture notes. It shall be the responsibility of the Conference Volunteer Committee Chair to assign at least 3 volunteers per tutorial. It shall be responsibility of the IEEE NNC Conference Tutorials Chair to provide the Conference Volunteer Committee Chair with a list of the tutorials to be presented as soon as available. In addition, it shall be responsibility of the IEEE NNC Conference Tutorials Chair to provide the Conference Volunteer Committee Chair with a tutorial schedule, which is to include the times and locations of the tutorials, as soon as the schedule is available.

2.5 Volunteer Meetings

On the evening prior to the day of the tutorials, a mandatory volunteer meeting will be held. At this time, conference registration and t-shirts will be given to the volunteers. It shall be the responsibility of the the Conference Volunteer Committee Chair to provide the Conference Management team with a list of the volunteers at least two weeks prior to the conference. It shall be the responsibility of the Conference Management team to provide the Conference Volunteer Committee Chair the conference registration for the volunteers. In addition, the Conference Management team shall also be responsible for providing 1) a room large enough to hold the meeting at the conference location, 2) a room which shall serve as the volunteer break room throughout the conference.

3 Volunteer Recruitment and Coordination

3.1 Recruitment

In order of priority, the organizations to be contacted for recruitment are

1. IEEE chapters local to the conference.
2. International Student Society for Neural Networks.
3. Other neural network organizations not listed in this document (such as the connectionists electronic mailing list).

Upon contacting these organizations, a memo for the request for volunteers shall include the following information:

1. The conference name, date and location.
2. The name, surface mail address, electronic mail address (if available), phone number (answering machine highly recommended), and FAX number (if available) of the Conference Volunteer Committee Chair. It is in the best interest of the Conference Volunteer Committee Chair to also provide a time and time zone which is best for contact.
3. The responsibilities expected of each volunteer, as well as the benefits each volunteer can expect to receive.
4. A list of positions available for the volunteers.
5. Information requested of the volunteer upon reply. This should include the volunteer's name, surface mail address, electronic mail address (if available), phone number, and FAX number (if available). Other information that should be received from the volunteer is a list of volunteer positions in order of preference and previous conference experience.

In the event that all the volunteer positions are filled, a volunteer waiting list shall be created. In the event that volunteers drop out, or an extra volunteer is needed, the position open will be filled by first volunteer waiting on this list.

To cut down on the cost of mailing, electronic mail shall be used whenever possible.

3.2 Coordination

3.2.1 Conference Position Assignment

Upon determining conference volunteer positions required, volunteer assignment shall be based upon: 1) volunteer preference; 2) first commit, first assigned.

3.2.2 Tutorial Position Assignment

Upon receiving the list of tutorials, a list of these tutorials shall be sent to all volunteers. Tutorial volunteer assignment shall be based upon: 1) volunteer preference; 2) first commit, first assigned. Volunteers will be assigned to as many tutorials as possible, therefore volunteers should rate all tutorials in order of preference. In general all volunteers receive their first two preferences and the remaining positions are filled as best possible to meet the needs of the tutorials and the preferences of the volunteers. A minimum of three (3) volunteers will be assigned to each tutorial.

3.2.3 Maintaining Volunteer Contact

In order to maintain contact with volunteers, monthly memos shall be sent to each volunteer. Memos shall include:

1. Current status report of volunteers and volunteer position assignment.
2. A request of reply from each volunteer to ensure that the volunteer received the memo and is still interested in volunteering.
3. Other information such as what housing is available for the volunteers, discounted airfares, transportation to and from the conference.

3.2.4 Volunteer Meetings

On the evening prior to the day of the tutorials, a mandatory volunteer meeting will be held. At this time, conference registration and t-shirts will be given to the volunteers. In addition, a tour of all areas of the conference will be given so the volunteers will have an idea of where to direct conference participants if asked. Volunteers not attending this meeting without prior consent of the Conference Volunteer Committee Chair shall be replaced with a volunteer on the waiting list.

Proposal on

Video Tutorials

Prepared for : IEEE Administration Committee of NN Council

Prepared by: M. A. El-Sharkawi

Objectives of Video Tutorials

- o To produce quality tutorial on selected topics in advanced technologies such as Neural Networks, Fuzzy Systems and control and Genetic Algorithm.
 - All presentation will be made under studio conditions
 - Only quality presentation materials (Slides and overhead) will be used.
 - Selected speakers must be very knowledgeable, talented and respected in their field
- o Materials for Video Tutorials must have one of the following basic components
 - Pioneer research (Topic oriented)
 - Instructional (Area oriented)
 - Advanced concepts (Cutting edge and newly emerged technologies)
 - Application to real world problems
- o Quantity is not the objective of this *ad hoc* committee

Role of IEEE Educational Activities Board

- o To coordinate logistics with speakers
- o To coordinate with local production units capable of delivering professional products
- o To coordinate the pre-production work of the presenters, such as the graphics
- o To finance most of the cost
- o To advertise and market the tape worldwide

Role of the NN Council

- o To establish the Video Tutorial Committee
- o To approve the tutorial budget
- o To partially fund 3 to 5 tutorials per year
- o To advertise the tutorial in the Council news letter
- o To suggest topics and speakers to the Video Tutorial Committee

Role of the Video Tutorial Committee

- o To select topics with wide interest
- o To select speakers
- o Maintain the cost of the tape to a minimum
- o Coordinate the taping activities with IEEE
- o To do quality control
- o To monitor and adjust the budget
- o To allocate the discretionary fund on case by case basis

Proposed Budget per title (Assuming 150 copies sold)

Prepared by Peter Wiesner of IEEE Educational Activities Department

Item	Cost (Discretionary)
TV recording and editing	\$ 3,500
Honorarium for presenter	\$ 1,000 (\$ 1000)
Printing of presentation material	\$ 800
Producer fee	\$ 1,700
Promotion	\$ 1,500
Duplication @ \$25/copy	\$ 3,750
Salaries, overhead, distribution	\$ 3,625
Total cost per ^{course} tape	\$ 16,675

Sale price

- o \$ 99 for members of IEEE
- o \$ 119 for non-members
- o Most sales are probably for members
- o Cost may go further down to about \$89 for members by reducing the overhead and readjusting some items

Royalties

Amount invested by NN Council per title (\$)	Royalties per copy (\$) (First 150 copies)	Royalties per copy (\$) (Each additional copy)
375	2.5	2
750	5.0	4.0
1,500	10.0	8.0
3,000	20.0	16.00

Requested amount from NN Council

- o For up to 5 programs per year, the requested amount from the Council is \$15,000.

Motion

" The NN council hereby approve the following items regarding the subject Video Tutorial:

1. Objectives of Video Tutorials
2. Role of IEEE Educational Activities Board
3. Role of NN Council
4. Role of the Video Tutorial Committee
5. Video Tutorial Budget
6. Video Tutorial Royalties Breakdown
7. Level of funding requested from the NN Council (\$3,000 per title for up to 5 titles)"

TAB 29

CONSTITUTION AND BYLAWS
FOR THE IEEE COUNCIL ON NEURAL NETWORKS

CONTAINS AMENDMENTS THROUGH DECEMBER 31, 1991

CONSTITUTION

TABLE OF CONTENTS

ARTICLE I	NAME AND PURPOSE
	Section 1 Name
	Section 2 Purpose
ARTICLE II	FIELD OF INTEREST
	Section 1 Field of Interest
ARTICLE III	MEMBERSHIP OF COUNCIL
	Section 1 Council and Member Societies
	Section 2 New Member Societies
	Section 3 Removal of Member Societies
	Section 4 Officers of Council AdCom
	Section 5 Voting Members of Council AdCom
	Section 6 IEEE Membership Requirement
	Section 7 Terms of Member Society Representatives
	Section 8 Vacancies of Member Society Representatives
	Section 9 Non-Voting Ex-Officio Members of Council AdCom
	Section 10 Liaison Representatives
ARTICLE IV	ELECTION AND APPOINTMENT OF OFFICERS
	Section 1 Election of Vice-President
	Section 2 Method of Election
	Section 3 Filling of Council Office Vacancies
ARTICLE V	POWERS, PRIVILEGES, AND DUTIES
	Section 1 Duties of Representatives
	Section 2 Duties of Officers and Members
	Section 3 Appointment of Secretary, Treasurer Publications, Meetings Committee Chairpersons
	Section 4 Duties of Council President
	Section 5 Establishment of Standing Committees
	Section 6 Duties of Vice-President
	Section 7 Duties of Secretary
	Section 8 Duties of Treasurer
	Section 9 Council Officer's Terms of Office
	Section 10 Expenditures and Debts
	Section 11 Honoraria and Travel Expenses

CONSTITUTION

TABLE OF CONTENTS

ARTICLE I	NAME AND PURPOSE
	Section 1 Name
	Section 2 Purpose
ARTICLE II	FIELD OF INTEREST
	Section 1 Field of Interest
ARTICLE III	MEMBERSHIP OF COUNCIL
	Section 1 Council and Member Societies
	Section 2 New Member Societies
	Section 3 Removal of Member Societies
	Section 4 Officers of Council AdCom
	Section 5 Voting Members of Council AdCom
	Section 6 IEEE Membership Requirement
	Section 7 Terms of Member Society Representatives
	Section 8 Vacancies of Member Society Representatives
	Section 9 Non-Voting Ex-Officio Members of Council AdCom
	Section 10 Liaison Representatives
ARTICLE IV	ELECTION AND APPOINTMENT OF OFFICERS
	Section 1 Election of Vice-President
	Section 2 Method of Election
	Section 3 Filling of Council Office Vacancies
ARTICLE V	POWERS, PRIVILEGES, AND DUTIES
	Section 1 Duties of Representatives
	Section 2 Duties of Officers and Members
	Section 3 Appointment of Secretary, Treasurer Publications, Meetings Committee Chairpersons
	Section 4 Duties of Council President
	Section 5 Establishment of Standing Committees
	Section 6 Duties of Vice-President
	Section 7 Duties of Secretary
	Section 8 Duties of Treasurer
	Section 9 Council Officer's Terms of Office
	Section 10 Expenditures and Debts
	Section 11 Honoraria and Travel Expenses

ARTICLE VI FINANCIAL SUPPORT & EXPENDITURES

- Section 1 Regular Income
- Section 2 Additional Revenues
- Section 3 Prohibited Expenditures

ARTICLE VII MEETINGS

- Section 1 Meetings
- Section 2 Annual Meeting
- Section 3 Quorum
- Section 4 Alternate Representatives
- Section 5 Business Conducted by Telecommunication
- Section 6 Lack of Quorum

ARTICLE VIII PUBLICATIONS

- Section 1 Publication Policies
- Section 2 Publication of Council Periodicals
- Section 3 Appointment of Editors

ARTICLE IX CONFERENCES AND TECHNICAL MEETINGS

- Section 1 Meetings Policies
- Section 2 Time and Locations of Meetings

ARTICLE X RECALL

- Section 1 Recall of Member Society Representatives
- Section 2 Recall of Voting Procedures

ARTICLE XI AMENDMENTS

- Section 1 Adoption and Amendment of Constitution
- Section 2 Adoption and Amendment of Bylaws
- Section 3 Precedence of IEEE Constitution, Bylaws, and Policies
- Section 4 Effective Date of Constitution

CONSTITUTION FOR THE
IEEE COUNCIL ON NEURAL NETWORKS

ARTICLE I

NAME AND PURPOSE

Section 1. The name of the organization constituted herein shall be the IEEE Council on Neural Networks.

Section 2. The purpose of the Council is to advance and coordinate work in the field of Neural Networks carried out throughout the IEEE and as such is exclusively scientific, literary and educational in character. In furtherance of the foregoing, the Council may publish appropriate periodicals, sponsor IEEE Neural Networks related conferences and conference sessions, sponsor IEEE Press publications, and engage in any other activity within its field of interest. All such actions must be in consonance with the Constitution, Bylaws, and Statements of Policy of the IEEE, with special attention to such aims within the field of interest of the Council as are hereinafter defined.

ARTICLE II

FIELD OF INTEREST*

Section 1. The field of interest of the Council and its activities and programs shall consist of aspects of the theory, design, and applications of neural networks that range from software to hardware. Changes to the field of interest may be made with approval of the IEEE Technical Activities Board.

ARTICLE III

MEMBERSHIP OF THE COUNCIL

Section 1. The Council shall be composed of IEEE Societies which have demonstrated a strong interest in Neural Networks and are supporting technical activities in the field. These Societies must agree to share the responsibility for all obligations of the Council, including those financial, in accordance with this Constitution and the Council Bylaws.

Section 2. Each new Member Society must be approved by a two-thirds affirmative vote of the voting members of the Council AdCom, and by the IEEE Technical Activities Board before it may join the Council.

Section 3. If a Member Society does not have any representative present at any of the Council AdCom meetings held during a calendar year and is inactive in Council affairs, the

* Amended. See Amendments Section.

Member Society may be dropped from Council membership. Notice of such proposed action shall be given to the President of the delinquent Society at least twenty days before the Council AdCom meeting where such action will be considered. Such action must be approved by two-thirds of the AdCom members present and voting and by the IEEE Technical Activities Board before it becomes final.

Section 4. The officers of the Council shall be as follows: President, Vice-President, Secretary, and Treasurer.

Section 5. Council business will be conducted by its AdCom which will include both voting and non-voting members. The voting members will be:

- a. Two representatives to be appointed by each Member Society.
- b. The President, Vice-President, Secretary and Treasurer
- c. The most recent available immediate past President of the Council.

An individual may not serve concurrently as both a Council officer and a Council Member Society representative. When a Member Society representative is elected to a Council office, the Council office shall take precedence over the Society appointment, and any resulting vacancy(s) shall be filled promptly by the appropriate Society.

Section 6. Each representative and officer on the Council must be an IEEE member.

Section 7. The term of office of a Member Society representative on the Council shall be two years with each of the two Society representatives appointed by the Society in alternate years. No Society representative shall be eligible to serve more than four consecutive years. An unexpired term filled for more than six months shall count as a full year. Reappointment after the completion of any term of four consecutive years may be made only after a lapse of at least one year.

Section 8. When a within-term Council representative vacancy occurs, the Council President shall request the appropriate Society to appoint a representative to complete the unexpired term.

Section 9. The non-voting ex-officio members of the Council AdCom will be:

- a. The Director of the Division in which the Council resides.
- b. The TAB Staff Secretary.
- c. The General Manager of IEEE.
- d. The IEEE Vice-President for Technical Activities.

Section 10. Any other IEEE Society which is not a member of the Council may send a non-voting liaison representative to attend for the purpose of establishing lines of communication between the Council and the parent Society represented.

ARTICLE IV

ELECTION AND APPOINTMENT OF OFFICERS

Section 1. Every year, the voting members of the Council AdCom shall elect a President, Vice-President, Secretary and Treasurer at the Annual Meeting. The officers shall serve for one year. No person shall be eligible to serve more than two consecutive one year terms for the same office.

Section 2. Officers shall be elected and appointed in accordance with the rules specified in the Council Bylaws.

Section 3. If the Office of President becomes vacant, the Vice-President shall become President for the remainder of the term assumed. If the office of Vice-President, Secretary or Treasurer becomes vacant, the voting members of the Council AdCom shall elect a new officer promptly.

ARTICLE V

POWERS, PRIVILEGES, AND DUTIES

Section 1. It shall be the duty of each representative of a Member Society to participate in matters before the Council AdCom and to keep the Administrative Committee of the Society represented informed concerning Council business. Members of any Member Society AdCom may attend any open meeting of the Council as observers.

Section 2. The duties and responsibilities of the officers and members of the Council AdCom shall be as defined hereunder and in the Bylaws, and as further delineated by the Council.

Section 3. The President shall appoint for a term concurrent with his presidency, the Editors of Council's Periodicals and the Chairpersons of the standing committees of the Council as specified in the bylaws on or before January 1st of the year in which he takes office as President. All appointments shall be made with the advice and consent of the Council AdCom. The Editor and Chairperson appointments need not be made from among the individuals who are on the Council AdCom as Society representatives.

Section 4. The Council President, under the direction of Council AdCom, shall call all regular, annual, and special Council AdCom meetings and shall preside over them. The President shall coordinate and supervise activities of the Council and have such other powers and perform such other duties as may be provided for in the Council Constitution or Bylaws or as may be delegated to the President by vote of the Council AdCom. Included in the President's duties shall be the responsibility to see that the orders and resolutions of the Council, the IEEE Technical Activities Board, the IEEE Executive Committee, and the IEEE Board of Directors are carried out. The President shall be an *ex-officio* member of all standing and special committees of the Council except the Nominating Committee. The President can vote during the election of officers. The President shall also be an *ex-officio* member of the IEEE Technical Activities Board, and, when notified of a meeting of said Board, shall ensure representation of the Council.

Section 5. Standing committees may be established as needed. With the advice and consent of the Council AdCom, the President shall appoint committee officers (and members, if such action is not specifically delegated in the establishment action of the Council) and shall fill any vacancies that occur during the year.

Individuals appointed as committee officers or members shall serve a nominal term of one year but shall continue to serve until their successors are appointed or the committee is dissolved, except where other terms are specifically designated by the Constitution or Bylaws.

The President may appoint *ad hoc* committees for special assignments as needed.

Section 6. The Vice-President shall assist the President in fulfilling all assigned duties, and shall assume the duties and have the power, privileges, and responsibilities of the President during the latter's absence or incapacity.

Section 7. The Secretary shall be responsible for all reports, petitions and records concerning the Council, keeping true and faithful minutes of all meetings of the Council AdCom, and shall prepare such reports as may be required by the Council, the IEEE Technical Activities Board, or the IEEE Executive Committee. The Secretary shall send out notices when instructed to do so by the President or in accordance with requirements of the Council Constitution or Bylaws. Copies of all meeting notices, minutes of meetings, and letter or bulletins sent and received during the previous two years shall be kept by the Secretary, except for those specifically assigned to the custody of others, and the Secretary shall send current copies to IEEE Headquarters for archival storage.

In the absence or incapacity of the President and Vice-President, the Secretary shall perform the duties of the President and have all Presidential powers, privileges, and responsibilities during the absence or incapacity of the President and Vice-President.

Section 8. The Treasurer shall propose a budget for Council operation to be endorsed by Council AdCom and approved by TAB and shall monitor expenditures to verify that they are in accordance with the approved budget. The Treasurer shall prepare financial reports as requested by the Council President, and shall keep the Treasurers of the Member Societies informed on Council financial matters affecting their budgets. The Council Treasurer shall approve the Conference budgets after they are approved by the Meetings Committee prior to being forwarded to IEEE Headquarters for review and final approval.

The Treasurer may utilize the services of IEEE headquarters as bursar for all or part of the Council funds, as provided by the IEEE Bylaws and Statements of Policy. If any parts of the Council funds is received and deposited separately, the terms and conditions shall be in accordance with IEEE policies and subject to Council Bylaws and any other limitations imposed by the Council. Disbursements shall be made on the signature or instructions of the Treasurer. If the Treasurer is disabled or unable to serve, the President may make disbursements during his incapacity.

Section 9. The President, elected and appointed officers shall normally assume office on January 1st or as soon thereafter as practicable.

Section 10. The officially constituted officers of the Council shall have the sole authority to obligate the funds and assets of the Council to promote the Council's activities, provided that no Council officer or representative shall have authority to contract debts for, pledge the credit of, or in any way bind the IEEE for activities prohibited by the Bylaws of the IEEE or the Constitution and Bylaws of the Council.

Section 11. No officer of the Council, representative on Council AdCom, or Editor shall receive, directly or indirectly, any honorarium, traveling expenses, compensation, or emolument from the Council as an officer or in any other capacity unless authorized by Council AdCom or by the Bylaws of the Council in a manner in conformity with IEEE policies and procedures.

ARTICLE VI

FINANCIAL SUPPORT & EXPENDITURES

Section 1. The financial support for the Council shall be derived from subscription sales of Council Publications, any surplus from the Conferences organized or sponsored by the Council, other programs and products sponsored by the Council, and allocations of funds provided by the Member Societies.

Section 2. The Council may raise revenues by other means provided such means are consistent with applicable IEEE rules and regulations and are within the approved Council field of interest. The Council must receive an opinion from the General Manager of the IEEE that any revenue means not explicitly covered by IEEE Statements of Policy does not conflict with IEEE policy before being adopted by the Council.

Section 3. Monies held by or for the Council legally belong to the IEEE, and shall not be expended for activities prohibited by the Constitution, Bylaws and Statements of Policy of the Institute, the Constitution and Bylaws of the Council, or any other purposes known to be inimical to the interests of the IEEE. Returns from investment of Council funds shall be credited to the Council.

ARTICLE VII

COUNCIL MEETINGS

Section 1. The Council shall hold an Annual Meeting. Additional meetings of the Council, represented by its AdCom, may be held at such times as are found necessary or convenient. Meetings of the Council AdCom may be called at the discretion of the Council President or upon request by at least four AdCom members. The time, place and agenda shall be announced to all members of the Council AdCom at least twenty days in advance of the meeting, or by first-class mail to the address of record of each Council AdCom Member at least twenty-five days in advance of the meeting.

Section 2. The Annual meeting of the Council shall normally be the last AdCom meeting of the year held at a time and place designated by the President.

Section 3. One-third of the voting members of the Council AdCom, which must include representatives from at least one-third of the Member Societies, shall constitute a quorum. Written proxies will not be accepted in determining the quorum. The Chairperson of the Publications Committee, and the Chairperson of the Meetings Committee, the Secretary, and the Treasurer shall be *ex-officio* members of the Council with a vote on all matters except election of officers and changes to the Constitution and Bylaws. If the offices of Secretary and Treasurer are combined, there shall be one vote by the officer.

Section 4. If a regular representative from a Member Society is unable to attend a meeting of the Council AdCom, the President of the Member Society may designate an alternate by a letter of proxy, who shall have all the powers of the regular representative. Officers of the Council may not delegate their powers by proxy.

Section 5. Business of the Council may be transacted by correspondence, or other telecommunication means where in the opinion of the President matters requiring action can be adequately handled in that manner. All voting members of the Council should be informed on such interim actions, and a majority of the entire Council must be reached for ratification of the actions, if balloting is necessary, unless otherwise provided by the Constitution or Bylaws.

Section 6. If less than a quorum is in attendance at duly called meetings, tentative actions may be taken that will become effective upon subsequent ratification, either at a subsequent meeting or by mail, as specified in Section 5 above.

ARTICLE VIII

PUBLICATIONS

Section 1. All Council publication activities shall be subject to IEEE policies, and to any further guidance or controls prescribed by the Council AdCom or its duly appointed committees.

Section 2. The Council may publish appropriate Periodicals in accordance with IEEE Policies and Procedures. Selection of the published material shall be in accordance with the objectives and policies of IEEE and the Council.

Section 3. The Council President, with the advice and consent of the Council AdCom, shall appoint the Editors who shall in turn appoint associate and/or guest editors as may be required to implement the publications program.

ARTICLE IX

CONFERENCES AND TECHNICAL MEETINGS

Section 1. All Council conferences and technical meeting activities shall be subject to IEEE policies, and to any further guidance or controls prescribed by the Council or its duly-appointed committees.

Section 2. The Council shall determine the time and location of each sponsored Conference and technical meeting. Furthermore, the Council shall not be bound by any agreements, within or without IEEE, made prior to ratification of this Constitution.

ARTICLE X

RECALL

Section 1. If at any time during the year and for any reason the best interests of the Council seem to require a change in Member Society representatives or officers, the matter shall be discussed at a regular or a special meeting of the Council AdCom called for the purpose of considering and voting upon the recommended change. At least twenty days before the Council AdCom meeting, notice of such proposed action shall be given to all appropriately interested individuals, including the President and Secretary of each Member Society involved and the Chairman and Secretary of the IEEE Technical Activities Board.

Section 2. An affirmative vote of two-thirds of the voting members of the Council AdCom shall be necessary to declare a vacancy for cause.

For the purposes of this Section, an abstention shall be counted as a cast negative vote.

ARTICLE XI

AMENDMENTS

Section 1. Sections of this Constitution may be adopted or amended by action of the Council at a regular or special meeting if the following provisions are met:

- a. Notice of the meeting and of the proposed change(s) must be mailed by first-class mail to the last-known address of each member of the Council AdCom at least twenty-five days prior to such meeting.
- b. A two-thirds affirmative vote of the votes cast by the members of the Council AdCom is required for passage.
- c. An amendment may be approved by a mail ballot if at least a thirty-day period is provided for responses, and two-thirds of the entire Council AdCom votes affirmatively.
- d. The Amendment shall become effective immediately after ratification by the IEEE Technical Activities Board.

Section 2. Bylaws to this Constitution may be adopted or amended by a two-thirds affirmative vote of the votes cast by the Council AdCom at a regular or special meeting, provided that notice of the meeting and a copy of the proposed change(s) is mailed by first-class mail to the last known address of each member of the Council AdCom at least twenty-five days prior to such meeting.

A Bylaw may also be adopted or amended by a mail ballot provided that a copy of the proposed change(s) is mailed to the last known address of each member of Council AdCom, at least thirty days are allowed for a reply, and a majority of the entire Council AdCom votes affirmatively.

The new Bylaw or Amendment shall be filed with the Secretary of the IEEE Technical Activities Board at least twenty days prior to the effective date.

Section 3. The Constitution, Bylaws, and Statements of Policy of the IEEE shall, at all times, take precedence over those of the Council.

Section 4. All amendments to the Constitution or Bylaws shall become effective immediately after all required approvals have been obtained, unless a later date has been specified at the time of the vote.

Constitution Adopted November 17, 1989

To Be Effective January 1, 1990

BYLAWS
TABLE OF CONTENTS

ARTICLE I	RULES OF ORDER
	Section 1 Robert's Rules of Order
ARTICLE II	MEMBER SOCIETIES
	Section 1 List of Member Societies
	Section 2 Responsibilities
ARTICLE III	NOMINATIONS AND ELECTIONS
	Section 1 Nominating Committee
	Section 2 Willingness to Serve of Nominees
	Section 3 Nominations Principles
	Section 4 Report of the Nominating Committee
ARTICLE IV	STANDING COMMITTEES
	Section 1 List of Standing Committees
	Section 2 Additional Committees
	Section 3 Subcommittees
	Section 4 Meetings Committee
	Section 5 Publications Committee
	Section 6 Nominating Committee
	Section 7 Constitution and Bylaws Committee
ARTICLE V	FINANCES
	Section 1 Budget and Reports
	Section 2 Financial Support
	Section 3 Initial Distribution of Surplus or Deficit
	Section 4 Subsequent Distribution Member Society and Conference Assessments
	Section 5 Conference Bank Account
ARTICLE VI	COUNCIL MEETINGS
	Section 1 Notification
	Section 2 Quorum
	Section 3 Secretary's Duties
	Section 4 Non-Voting Attendees
	Section 5 Meeting Cancellation
	Section 6 Location of Meetings

BYLAWS FOR THE
IEEE COUNCIL ON NEURAL NETWORKS

These Bylaws provide detailed guidance for the supervision and management of Council affairs, in accordance with the Council Constitution. Amendments or additions may be made by means of the procedures described in Article XI, Section 2, of the Constitution.

ARTICLE I
RULES OF ORDER

Section 1. In all matters not covered by the Constitution, Bylaws, and Rules, the Council shall be governed by the latest edition of Robert's Rules of Order.

ARTICLE II
MEMBER SOCIETIES

Section 1. The Member Societies of the Council shall be those formally admitted by the IEEE Technical Activities Board in accordance with the Council Constitution. A current listing of Member Societies will be maintained by the TAB Secretary at IEEE Headquarters.

Section 2. Any Member Society unwilling or unable to continue to share responsibilities as defined in the Council Constitution may resign from the Council. When a letter of resignation has been received by the Council Secretary, the resigning Society shall be dropped from the Council roll at the end of the calendar year. Any former Member Society may later rejoin, without prejudice, on the same basis as any new applicant.

ARTICLE III
NOMINATIONS, ELECTIONS, AND APPOINTMENTS

Section 1. The Nominating Committee, which is a Standing Committee of the Council, shall consist of a Chairperson and three other members. At least one shall not be a current Council member but shall belong to at least one Member Society. The officers of the Council may not serve on the Nominating Committee nor be members *ex-officio*.

Section 2. The Chairperson of the Nominating Committee shall consult with each candidate prior to nomination to determine willingness to serve if elected.

Section 3. The Nominating Committee shall be guided in its selections by the principles of efficiency, geographical distribution, past history, and technical interest.

Section 4. The Chairperson of the Nominating Committee shall submit the Committee Report to the Council AdCom at the beginning of its Annual Meeting, or with the approval of the Council President, by letter to all qualified voting officers and representatives on the Council AdCom prior to the Annual Meeting. From the floor of the same meeting or by letters mailed to the entire Council AdCom, the officers and representatives may make additional nominations.

Section 5. The names of any candidates of the Council who are not eligible under the Constitution or Bylaws shall be withdrawn by the President of the Council.

Section 6. Election of the officers, whenever a vacancy exists, shall be from those nominees as specified in these Bylaws, Article III, Sections 2, 3, 4, and 5. Elections shall be by secret ballot of the voting members of the Council AdCom. For the first year of operation of the Council, the officers must be elected by secret ballot directly by the Council AdCom. Nominations must be made by the voting AdCom members.

Section 7. If any Council office becomes vacant at any time during the year, and if the vacant office cannot be filled by logical succession of an existing Council officer as described in the Constitution and Bylaws, the Council will promptly hold an election to fill the existing vacancy. As needed, elections shall be held separately for the offices of President, Vice-President in that order. To be elected, a nominee must receive a majority of the proper votes cast. If no candidate receives a majority on a ballot, the name of the candidate receiving the smallest vote shall be withdrawn and a second ballot taken. This procedure shall be repeated until one candidate receives a majority vote.

The Council AdCom may hold contingent elections to be effective if an elected officer fails to accept office, is disapproved by IEEE Headquarters because there has been some irregularity in the nominations and election procedures, or has failed to maintain IEEE membership and Society membership.

Section 8. The President of the Council shall inform each successful candidate of his election and shall arrange for the transfer of responsibility. The name of each elected officer shall be reported to the Chairman and Secretary of the IEEE Technical Activities Board.

ARTICLE IV

STANDING COMMITTEES

Section 1. The Standing Committees shall include the following:

Meetings Committee
Publications Committee
Nominating Committee
Constitution and Bylaws Committee

Section 2. The Council may establish such additional Standing Committees as may be deemed desirable.

Section 3. Each Standing Committee shall have the power to create subcommittees of its own selection.

Section 4. The organization of each Conference or Technical Meeting sponsored by the Council shall include a Steering Committee and a Program Committee whose Chairperson shall be appointed by the President upon the recommendation of the Meetings Committee and with the advice and consent of the Council AdCom. The individual members of the respective committees should be appointed by the above officials. The Meetings Committee, with approval of the Council, may plan, organize and sponsor other activities held in conjunction with Conferences of other societies.

Section 5. The Publications Committee shall establish publication policy subject to annual review by the Council. It shall assist the appropriate Editors of Council Periodicals in the choice of special topics and in guiding and planning all Publications.

Editors may designate associate editors, special guest editors, and manuscript reviewers, doing so in accordance with general IEEE statements of Policy.

Editorial expenses must be in accordance with an annual budget approved by the Council. Editors may authorize publication expenses, but shall be responsible for adherence to the publication budget.

Section 6. The Nominating Committee shall be appointed by the President of the Council in accordance with the provisions of the Constitution and Article III, Section 1, of these Bylaws. It shall have the duties described in Article III, Sections 1, 2, 3, 4, of these Bylaws. the Chairperson of the Nominating Committee shall be the Past President of the Council.

Section 7. The Secretary of the Council shall serve as the Chairperson of the Constitution and Bylaws Committee. Additional members may be appointed by the President upon request of the Council's AdCom.

The functions of the Constitution and Bylaws Committee will be to:

- a. Maintain up-to-date copies of the Constitution and Bylaws and make them available upon request.
- b. Ascertain that the Constitution and Bylaws are not in conflict with any requirements or rules of IEEE Headquarters.
- c. Recommend changes in the Constitution or Bylaws as necessary to conform to the development of the Council or to changes by IEEE Headquarters.
- d. The Chairperson of the Constitution and Bylaws Committee shall serve as Parliamentarian and Consultant on Procedural matters at meetings of the Council AdCom.

ARTICLE V

FINANCES

Section 1. The Treasurer shall submit a proposed Council budget for the ensuing year in accordance with IEEE budget development guidelines. When approved by the Council and the TAB, this budget shall become the working budget for the following year. This approved budget will constitute authorization to the Treasurer to disburse the funds in amounts not to exceed any budgeted item.

The Treasurer shall be responsible for forwarding to IEEE Headquarters the approved budget, and Headquarters will be thereby authorized to disburse the funds in accordance with instructions from the Treasurer.

The Treasurer shall obtain a financial statement of receipts, expenditures, and balances from IEEE Headquarters at least twice yearly and shall distribute copies of this statement to all members of the Council AdCom. The treasurer shall also keep a running account of commitments to date.

Section 2. The financial support for the Council shall be derived from the income from sales of the Council Periodicals, Books and IEEE Press publications, and from its share of any surplus from the Council sponsored Conferences. The Periodicals subscription prices to members of the Council Member Societies shall be set to be no less than self-sustaining.

Section 3. In the event of a distribution of surplus, or payment of a deficit, during the first year of publication of a Council periodical, each Council Member Society shall receive or pay an equal share.

Section 4. In the event of a distribution of surplus, or payment of a deficit, during the second and subsequent years of publication of a Council periodical, each Council Member Society shall receive or pay a share according to the ratio of the number of its members who subscribe to the periodicals as of September 30th. For the purpose of determining this ratio, an individual who belongs to more than one Council Member Society shall be counted in each one. Any surplus from the Council sponsored Conferences that has been distributed to the Council may be used for operating expenses, but no other assessment may be made on the Conferences.

Section 5. The Treasurer of Council sponsored Conferences is authorized to open an account in the Conference's name, to be used for the deposit and disbursement of funds related to the Conference. The Council shall be advised of the name of the bank, the anticipated size of the account, the names of the account, signatories and of arrangements for insurance and bonding, all of which must be in accordance with IEEE policies and procedures.

ARTICLE VI

COUNCIL MEETINGS

Section 1. The Secretary shall announce to the members of the Council AdCom all Chairpersons of Standing and Special Committees and appropriate guests of the time, place, and agenda of all meetings of the Council AdCom at least twenty days in advance of the meeting or by first class mail at least twenty-five days in advance of the meeting.

Section 2. A roll call shall be made at the beginning of each Council AdCom meeting. The Secretary shall record the names of those present and announce whether a quorum exists.

Section 3. The Secretary shall transmit in writing within ten days of their adoption all motions, directives, or orders of the Council to the persons affected. The secretary shall transmit a copy of the minutes of the Council AdCom to the officers, members of the Council AdCom, Chairpersons of the Standing and Special Committees, and to the Secretary of the IEEE Technical Activities Board within thirty days of the meeting. As soon after January 1st as practicable, the Secretary shall provide a directory listing the names and address of all of the above-mentioned people to each person named therein.

Section 4. The Chairpersons of all Standing Committees who are not voting members of AdCom shall be invited to attend all meetings of the Council AdCom as guests and advisors.

Section 5. Meetings of the Council AdCom may be cancelled only by consent of a majority of all the members of the Council not less than fourteen days before the original date or the new date set for the meeting, whichever is earlier. Notice of such cancellation or changed date shall be given all Council AdCom members by mail not less than ten days before the original or the new date, whichever is earlier.

Section 6. Meetings of the Council AdCom may be held at international or regional technical meetings or conventions of the IEEE, jointly with a Section, separately, or jointly with another society, whenever such a meeting is deemed desirable by the Council.

Bylaws adopted Friday, November 17, 1989.

To be effective January 1, 1990

AMENDMENTS

#####

THE FOLLOWING AMENDMENT OF THE BYLAWS OF THE IEEE COUNCIL ON NEURAL NETWORKS WAS APPROVED BY THE COUNCIL AdCOM, NOVEMBER, 1990:

REPLACE THE ENTIRE TEXT OF ARTICLE V, SECTION 4, OF THE BYLAWS WITH

ARTICLE V Section 4. In the event of a distribution of surplus, or payment of a deficit, during the second and subsequent years, each member Society's share will be proportional to the number of years that Society has been a member of the IEEE Neural Network Council (founded 1990) and/or member of the IEEE Neural Networks Committee (founded 1987 and dissolved 1989).

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AT ITS JANUARY 1991 AdCOM MEETING, THE COUNCIL APPROVED THE STANDARDS COMMITTEE AS A STANDING COMMITTEE OF THE COUNCIL.

#####

AT ITS JULY 1991 AdCOM MEETING, THE COUNCIL APPROVED THE FELLOWS COMMITTEE AS A STANDING COMMITTEE OF THE COUNCIL.

#####

AT ITS JULY 1991 MEETING, AND AMENDMENT OF ARTICLE II, SECTION 1 OF THE CONSTITUTION WAS APPROVED BY AdCOM AND WAS SUBSEQUENTLY APPROVED BY TAB IN OCTOBER 1991. IT NOW READS

ARTICLE II

FIELD OF INTEREST

Section 1. The field of interest of the Council and its activities and programs shall be the theory, design, application and development of biologically and linguistically motivated computational paradigms emphasizing neural networks, including connectionist systems, genetic algorithms, evolutionary programming, fuzzy systems, and hybrid intelligent systems in which these paradigms are contained. Changes to the field of interest may be made with the approval of the IEEE Technical Activities Board.

TAB 30

October 15, 1991

IEEE Council on Neural Networks⁺:

Ex Com (1992)

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