

The CIS History Committee for 2011

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History of the Neural Networks Council: 1993

1. Introduction

The year marked several firsts, including: the inaugural NNC sponsorship of a conference on virtual reality (VRAIS); our first NNC Fellow (Teuvo Kohonen); the first issue of the *IEEE Transactions on Fuzzy Systems*; our first “dual topic” meeting – viz., the joint FUZZ-IEEE/ICNN conference held in San Francisco in May, presaging the first WCCI which will subsequently be held in 1994; and our first trademarked logo, issued by the US Patent and Trademark Office. Figure 93.1 displays the logo.

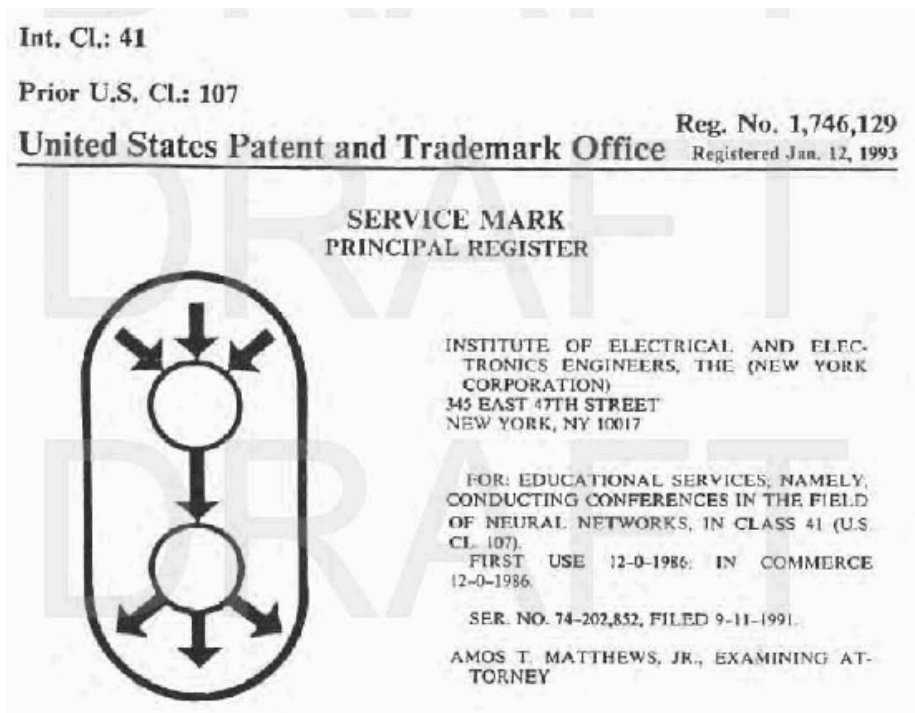


Figure 93.1 The trademark approved for the NNC logo on Jan. 12, 1993.

The only Adcom meeting of the NNC this year was held on September 18 in Seattle.

2A. Sponsor organizations. The IEEE NNC Adcom was composed of its officers plus two members from each of 15 IEEE societies (date indicates year of joining council):

Circuits and Systems	(1989)
Communications	(1989)
Computer Society	(1992)
Control Systems	(1989)
Engineering in Medicine and Biology	(1989)
Industrial Electronics	(1989)
Industry Applications	(1990)
Information Theory	(1989)
Laser and Electro-Optics	(1989)
Ocean Engineering	(1990)
Power Engineering Society	(1992)
Robotics and Automation	(1989)
Signal Processing	(1989)
Social Implications of Technology	(1993)
Systems, Man and Cybernetics	(1989)

2B. Administrative Structure : Officers of NNC (elected July 8, 1991, Seattle Adcom)

Russell Eberhart, President
 Patrick K. Simpson, Vice President
 Roy Nutter, Treasurer
 Toshio Fukuda, Secretary

2C. Standing Committees of the NNC

Committee or Activity	Chair, Liason or Leader
Awards Committee	Brad Dickinson
Distinguished Lecturer Program	Donald C. Wunsch
Education Committee	Robert W. Newcomb
Fellows Committee	Robert W. Newcomb
IEEE Committee on Man and Radiation	J. Patrick Reilly
Meetings Committee	James C. Bezdek
Nominating Committee	Robert J. Marks II
Publication Committee	Stamatious Kartolopoulos
Regional Interest Group Committee	Rick Alan
Standards Committee	Walter Karplus
Video Tutorials Committee	Mohamed A. El-Sharkawi
Virtual Reality Technology Committee	Thomas P. Caudell

3. Conferences sponsored or co-sponsored by the IEEE NNC

Name(s)	2 nd FUZZ-IEEE and ICNN (held jointly)
Dates	March 28-April 1, 1993
Venue	San Francisco, CA
Administrators	Enrique Ruspini, Conference Chair for both meetings Piero Bonissone, Program Chair for FUZZ-IEEE Hamid Berenji, Elie Sanchez and Shiro Usui, Program co-Chairs for the ICNN
Conference record(s)	<i>Proc. of the 1993 FUZZ-IEEE</i> <i>Proc. of the 1993 ICNN</i>
Name	IEEE NNC Forum on Virtual Reality and Humans with Disabilities
Dates	June, 1993
Venue	Unknown

Administrators	Harry Murphy, Conference Chair
Conference record	Unknown
Name	1 st IEEE Virtual Reality Annual International Symposium (VRAIS)
Dates	June 17-18, 1993
Venue	Seattle, WA
Administrators	Thomas Furness, Program Chair Michitaki Hirose and Thomas Caudell, Program co-Chairs Robert J.Marks II, Organization Chair Masachiro Kawahate and Toshio Fukuda, International Liasons
Conference record	<i>1993 IEEE Virtual Reality Annual International Symposium</i>

4. Archival NNC Publications

The *IEEE Transactions on Neural Networks* (TNN): Robert J. Marks, EIC
The *IEEE Transactions on Fuzzy Systems* (TFS): James C. Bezdek, EIC
CoNNections Newsletter: Wesley Snyder, EIC.
Special Issue: *IEEE TNN: Evolutionary Computing*, eds. D. Fogel and L. Fogel

5. Other NNC Sponsored Publications. None

6. NNC Sponsored Video Tutorials, produced and distributed by the IEEE Educational Activities Board.

- 6A. Introduction to Virtual Reality: Henry Sowizral.
- 6B. Psychophysics and technology of virtual acoustic displays: Elizabeth Wenzel.
- 6C. Force reflecting interfaces to teleoperators and virtual environments: Ed Colgate.
- 6D. Virtual reality architecture for distributed multi-user environments: Reza Jalili
- 6E. Applying virtual environment technology to training and simulation: Hans Jense

7. Awards and Prizes

- 7A. NNC Neural Network Pioneer Awards : Thomas Cover
- 7B. TNN Outstanding paper award to Sanner and Slotine [93.1]
- 7C. NNC Sponsored IEEE Fellow: Teuvo Kohonen

8. Significant Related Events

- 8A. Bob Marks weighed in on the term “computational intelligence” in a one page note published in the *IEEE TNN* [93.2].

9. Anecdotes for 1993. None

10. Glossary, Notation and Acronyms for 1993

CI	Computational Intelligence
CIS	Computational Intelligence Society (of the IEEE)
DARPA	Defense Advanced Research Projects Agency
DLP	Distinguished Lecturer Program
EC	Evolutionary Computation
EIC	Editor in Chief
FLSI	Fuzzy Logic Systems Institute
FUZZ-IEEE	International IEEE Conference on Fuzzy Systems
ICNN	International Conference on Neural Networks
IJCNN	International Joint Conference on Neural Networks
NN	Neural Network

NNC	Neural Networks Council (of the IEEE)
NNCom	Neural Network Committee (of the IEEE)
NNS	Neural Networks Society (of the IEEE)
TAB	Technical Activities Board (of the IEEE)
TFS	(IEEE) Transactions on Fuzzy Systems
TNN	(IEEE) Transactions on Neural Networks
VRAIS	Virtual Reality Annual Int. Symposium

11. References for 1993.

[93.1] Sanner, R. M. and Slotine, J.J. E. (1992). Gaussian Networks for Direct Adaptive Control, *IEEE Trans. NN*, 3(6), 837-863.

[93.2] Marks, R. J. II (1993). Intelligence: Computational versus Artificial, *IEEE Trans. NN*, 4, 737.