Call for Papers
Special Issue of the IEEE TRANSACTIONS ON NEURAL NETWORKS: Everyday Applications of Neural Networks

The objective of this special issue is presentation of cases of ongoing or everyday use of neural networks in industry, commerce, medicine, engineering, military, and other disciplines.

Even though artificial neural networks have been around since the 1940's, the last decade has seen a tremendous upsurge in research and development. This activity has been at two levels: 1) advances in neural techniques and network architectures and 2) exploration of application of this technology in various fields. Neural-network technology has reached a degree of maturity as evidenced by an ever increasing number of applications. It is useful, at this stage, to take stock of applications to provide the neural practitioner 1) knowledge of fields wherein neural technology has had an impact and 2) guidance concerning fruitful areas of research and development in neurotechnology that have a significant impact.

This special issue of the IEEE TRANSACTIONS ON NEURAL NETWORKS (TNN) calls for submission of papers concerning neural technology adopted for ongoing or everyday use. Hybrid neural technology, such as neuro-fuzzy systems, is also appropriate. Submissions are to specifically address the infusion and adaptation of neural technology in various areas. Exploratory applications papers, normally welcome for submission to the TNN, are specifically discouraged for this special issue. Adopted and established applications papers, however, are appropriate. Submissions to the special issue will be judged based on the veracity of everyday use, comparitive performance over previously used techniques, and lessons learned from the development and applications. Descriptions of remaining open problems or desired, though unachieved performance attainment are encouraged.

Six (6) copies of the manuscript should be mailed to one of the special issue editors by November 15, 1996. The special issue is tentatively scheduled for publication in July 1997. Submissions could either be brief papers or regular papers. Please refer to instructions to authors for the TNN.

Tharam Dillon
Professor of Computer Science
Head, School of Computer Science and Computer Eng.
La Trobe University
Bundoora, Melbourne, Victoria 3083 Australia
Tel: +61 3 479 2598
Fax: +61 3 479 3060
tharam@latcs1.cs.latrobe.edu.ua

Payman Arabshahi
University of Washington
Department of Electrical Eng.
Benton Way at Stevens Way
Box 352500
Seattle, WA 98195 USA
Tel: (206) 236-2694
Fax: (206) 543-3842
payman@ee.washington.edu

Robert J. Marks, II
University of Washington
Department of Electrical Eng.
c/o 1131 199th Street SW
Lynnwood, WA 98036-7138 USA
Tel: (206) 543-6990
Fax: (206) 776-9297
r.marks@ieee.org