Announcements and calls for papers for conferences and workshops

Material for inclusion in this section can be submitted (email preferred) to:

G. Thimm, Institut Dalle Molle d'Intelligence Artificielle Perceptive (IDIAP), P.O. Box 592, CH-1920 Martigny, Switzerland. Tel.: +41 26 21 77 35, fax: +41 26 21 77 12, email: thimm@idiap.ch, WWW: http://www.idiap.ch/nn.html

NICROSP'96 International Workshop on Neural Networks for Identification, Control, Robotics, and Signal/Image Processing
21–23 August 1996, Venic, Italy

Sponsored by the IEEE Computer Society and the IEEE CS Technical Committee on Pattern Analysis and Machine Intelligence. In cooperation with: ACM SIGART, IEEE Circuits and Systems Society, IEEE Control Systems Society, IEEE Instrumentation and Measurement Society, IEEE Neural Network Council, IEEE North-Italy Section, IEEE Region 8, IEEE Robotics and Automation Society (pending), IEEE Signal Processing Society (pending), IEEE System, Man, and Cybernetics Society, IMACS, INNS (pending), ISCA, AEI, AICA, ANIPLA, FAST.

This workshop is directed to create a unique synergetic discussion forum and a strong link between theoretical researchers and practitioners in the application fields of identification, control, robotics, and signal/image processing by using neural techniques. The three-days single-session schedule will provide the ideal environment for in-depth analysis and discussions concerning the theoretical aspects of the applications and the use of neural networks in the practice. Invited talks in each area will provide a starting point for the discussion and give the state of the art in the corresponding field. Panels will provide an interactive discussion.

General Chair
Prof. Edgar Sanchez-Sinencio
Department of Electrical Engineering
Texas A & M University
College Station, TX 77843-3128 USA
Phone: (409) 845-7498, Fax: (409) 845-7161
Email: sanchez@eesun1.tamu.edu

Program Chair
Prof. Vincenzo Piuri
Deparment of Electronics and Information
Politecnico di Milano
piazza L. da Vinci 32, I-20133 Milano, Italy
Phone: +39-2-2399-3606, fax: +39-2-2399-3411
Email: piuri@elet.polimi.it

Workshop Secretariat
Ms. Laura Caldirola
Department of Electronics and Information
Politecnico di Milano
Phone: +39-2-2399-3623, fax: +39-2-2399-3411
Email: caldirol@elet.polimi.it

ANNIE'96 Artificial Neural Networks in Engineering
November 10–13, 1996, Marriott Pavilion Hotel, St. Louis, Missouri

Artificial Neural Networks, Fuzzy Logic and Evolutionary Programming for Designing Smart Engineering Systems

URL: http://www.umr.edu/ ˜ annie/

ANNIE'96 wiil be held on November 10–13, 1996, at Marriott's Pavilion Hotel in downtown St. Louis, Missouri, USA. This will be the sixth international gathering of researchers interested in engineering applications of neural networks, fuzzy logic, and evolutionary programming. The previous conferences drew approximately 150 papers each from twenty countries and their proceedings were published by ASME press as hardbound books in five volumes titled Intelligent Engineering Systems Through Artificial Neural Networks Fuzzy Logic and Evolutionary Programming, edited by C.H. Dagli et al.

The conference will cover the theory of artificial neural networks, fuzzy logic, and evolutionary programming, and their applications in the engineering domain. The objective of the conference is to bring together researchers in the field of neural networks, fuzzy logic, and evolutionary programming, and exchange ideas on their applications to engineering problems. Presentations dealing with applications of these emerging technologies are encouraged in the areas of: manufacturing engineering, biology and medicine, pattern recognition, image processing, process monitoring, control, recent theoretical developments in artificial neural network architectures, fuzzy logic, evolutionary programming, fractals, chaos, and wavelets that can impact engineering applications.

Topics of interest

Architectures and Techniques
  – Neurally-Based Network Architectures
  – Associative Memory
  – Learning Algorithms and Training
  – Performance Analysis
  – Theoretical Foundations of Architectures
  – Hybrid Systems
  – Fuzzy Logic and Systems
  – Optimization
  – Evolutionary Programming
  – Genetic Algorithms
  – Chaos
  – Fractals
  – Wavelets
  – Complex Systems
Pattern Recognition
  – Pattern Identification
  – Feature Identification
  – Machine Vision and Image Processing
Control
  – Adaptive Control
  – Non-linear Systems Modeling
  – Diagnosis
  – Process Monitoring

Smart Engineering Systems
- Manufacturing Engineering
- Biomedical Engineering
    - Time Frequency and Wavelets
    - Exploratory Data Analysis
    - Multi-Channel Signal
    - Virtual Reality
- Engineering Applications

Keynote speakers

ANNIE'96 will be seeing to invite distinguished researchers from industry, government and academia as keynote speakers. Suggestions of possible speaker names should be made to the Conference Chair.

Exhibitors

ANNIE'96 is inviting companies and research institutions interested in Artificial Neural Network, Fuzzy Logic, and Evolutionary Programming Applications in Engineering, to take part in the ANNIE Exhibition to be held on November 10–13, 1996. Book companies publishing in this area are also welcome. For further information, please contact Conference Chair.

Industrial panel

ANNIE 96 is planning to make available data sets for process monitoring and control provided by industry for comparing the performance of various control models proposed by authors. The details of the process will not be disclosed to the researchers. The best model will be selected by the representative of the industry, who knows the real life process. Each researcher will present their results on Wednesday, November 13, 1996, during the industrial panel. If you are interested in participating in this activity as a researcher, you can download the data from ANNIE 96 home page http://www.umr.edu/ ~ annie/ and indicate your willingness to participate by August 9, 1996 to the Conference Chair.

Affiliated organizations

● Office of Naval Research, Arlington, VA
● Dynamic Systems Control Division, ASME
● American Institute of Aeronautics and Astronautics
● McDonnell Douglas Corporation, St. Louis, MO
● Ctr. For Opt. & Cntrl., Washington Univ., MO
● Lockheed-Martin Corporation, Bethesda, MD

Organizing committee

Conference Chair:

Prof. Cihan H. Dagli, Engineering Management, University of Missouri-Rolla, Rolla, MO

Conference Chair:

Biology and Medicine: Prof. Metin Akay, Biomedical Engineering, Rutgers University
Applications: Prof. C.L. Philip Chen, Computer Science and Engineering, Wright State University
Control: Prof. Benito Fernàndez, Mechanical Engineering, University of Texas at Austin

Pattern Recognition: Prof. Joydeep Ghosh, Electrical and Computer Engineering, University of Texas at Austin
NNCM-96 Fourth International Conference Neural Networks in the Capital Markets
November 20–22, 1996, The Ritz-Carlton Hotel, Pasadena, California, USA

Sponsored by Caltech and London Business School

Neural networks have been applied to a number of live systems in the capital markets, and in many cases have demonstrated better performance than competing approaches. Because of the increasing interest in the NNCM conferences held in the U.K. and the U.S., the fourth annual NNCM is planned for November 20–22, 1996, in Pasadena, California. This is a research meeting where original and significant contributions to the field are presented. In addition, introductory tutorials will be included to familiarize audiences of different backgrounds with the financial and the mathematical aspects of the field.

Areas of Interest

Price forecasting for stocks, bonds, commodities, and foreign exchange; asset allocation and risk management; volatility analysis and pricing of derivatives; cointegration, correlation, and multivariate data analysis; credit assessment and economic forecasting; statistical methods, learning techniques, and hybrid systems.

Organizing Committee

Dr. Y. Abu-Mostafa, Caltech (Chairman)
Dr. A. Atiya, Cairo University
Dr. N. Biggs, London School of Economics
Dr. D. Bunn, London Business School
Dr. M. Jabri, Sydney University
Dr. B. LeBaron, University of Wisconsin
Dr. A. Lo, MIT Sloan School
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Dr. C. Pedreira, Catholic Univ. PUC-Rio
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Dr. M. Steiner, Universitaet Munster
Dr. A. Timermann, UC San Diego
Dr. A. Weigand, University of Colorado
Dr. H. White, UC San Diego
Dr. L. Xu, Chinese University of Hong Kong

Submission of Papers

Original contributions representing new and significant research, development, and applications in the above areas of interest are invited. Authors should send 5 copies of a 1000-word summary clearly stating their results to:
Dr. Y. Abu-Mostafa, Caltech 136-93, Pasadena, CA 91125, USA.
All submissions must be received before May 1, 1996. There will be a rigorous refereeing process to select the high-quality papers to be presented at the conference.

Location

The conference will be held at the Ritz-Carlton Huntington Hotel in Pasadena, within two miles from the Caltech campus. The hotel is a 35-minute drive from Los Angeles International Airport (LAX) with nonstop flights from most major cities in North America, Europe, the Far East, Australia, and South America.

Mailing List

If you wish to be added to the mailing list of NNCM-96, please send your postal address, e-mail address, and fax number to
Dr. Y. Abu-Mostafa, Caltech 136-93, Pasadena, CA 91125, USA
E-mail: yaser@caltech.edu, Fax: (818) 795-0326
Home page: http://www.cs.caltech.edu/ ~ learn/nncm.html