



Connections

The Newsletter of the IEEE Neural Networks Council

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July 1993

IN 1994
THE INTELLIGENT WORLD IS
COMING TO ORLANDO...



FUZZ-IEEE
International Conference on Neural Networks
International Symposium on Evolutionary Computation

WORLD CONGRESS '94 • WORLD CUP

JUNE 26 - JULY 2, 1994

WALT DISNEY WORLD DOLPHIN HOTEL

Orlando, Florida

For Program Information Contact:

Meeting Management

5665 Oberlin Drive, #110

San Diego, California 92121

619-453-6222



Sponsored by the Neural Networks Council

World Congress on Computational Intelligence

International Conference on Neural Networks

FUZZ/IEEE '94

IEEE International Symposium on Evolutionary Computation

June 26 - July 2, 1994

**Walt Disney World Dolphin Hotel,
Lake Buena Vista, Florida**

Sponsored by the IEEE Neural Networks Council

IEEE INTERNATIONAL CONFERENCE ON NEURAL NETWORKS

General Chair

**Steven K. Rogers
United States Air Force
Institute of Technology
rogers@afit.af.mil**

Topics: Applications, architectures, artificially intelligent neural networks, artificial life, associative memory, computational intelligence, cognitive science, embedology, filtering, fuzzy neural systems, hybrid systems, image processing, implementations, intelligent control, learning and memory, machine vision, motion analysis, neurobiology, neurocognition, neurodynamics, optimization, pattern recognition, prediction, robotics, sensation and perception, sensorimotor systems, speech, hearing and language, system identification, supervised and unsupervised learning, tactile sensors, and time series analysis.

FUZZ/IEEE '94

General Chair

**Piero P. Bonissone
General Electric Corporate
Research and Development
bonissone@crd.ge.ge.com**

Topics: Basic principles and foundations of fuzzy logic, relations between fuzzy logic and other approximate reasoning methods, qualitative and approximate-reasoning modeling, hardware implementations of fuzzy-logic algorithms, design, analysis, and synthesis of fuzzy-logic controllers, learning and acquisition of approximate models, relations between fuzzy logic and neural networks, integration of fuzzy logic and neural networks, integration of fuzzy logic and evolutionary computing, and applications.

IEEE CONFERENCE ON EVOLUTIONARY COMPUTATION

General Chair

**Zbigniew Michalewicz
University of North Carolina,
Charlotte
zbyszczek@mosalc.uncc.edu**

Topics: Theory of evolutionary computation, evolutionary computation applications, efficiency and robustness comparisons with other direct search algorithms, parallel computer applications, new ideas incorporating further evolutionary principles, artificial life, evolutionary algorithms for computational intelligence, comparisons between different variants of evolutionary algorithms, machine learning applications, evolutionary computation for neural networks, and fuzzy logic in evolutionary algorithms.

INSTRUCTIONS FOR ALL THREE CONFERENCES

Papers must be received by **December 10, 1993**. Papers will be reviewed by senior researchers in the field, and all authors will be informed of the decisions at the end of the review process. All accepted papers will be published in the Conference Proceedings. Six copies (one original and five copies) of the paper must be submitted. Original must be camera ready, on 8.5x11-inch white paper, one-column format in Times or similar fontstyle, 10 points or larger with one-inch margins on all four sides. Do not fold or staple the original camera-ready copy. Four pages are encouraged. The paper must not exceed six pages including figures, tables, and references, and should be written in English. Centered at the top of the first page should be the complete title, author name(s), affiliation(s) and mailing address(es). In the accompanying letter, the following information must be included: 1) Full title of paper, 2) Corresponding authors name, address, telephone and fax numbers, 3) First and second choices of technical session, 4) Preference for oral or poster presentation, and 5) Presenter's name, address, telephone and fax numbers. Mail papers to (and/or obtain further information from): World Congress on Computational Intelligence, Meeting Management, 5665 Oberlin Drive, #110, San Diego, California 92121, USA (email: 70750.345@compuserve.com, telephone: 619-453-6222).

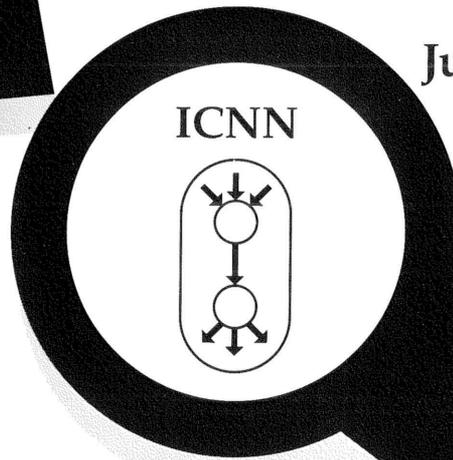
INTERNATIONAL CONFERENCE ON NEURAL NETWORKS

Walt Disney World
Orlando, Florida

June 28 - July 2
1994

General Chair
Steven K. Rogers

Program Co-Chairs:
Dennis W. Ruck
Mitsuo Wada
David Bounds



Topics:

- Applications
(specify area: medical, military, economic...)
- Architectures
- Artificially Intelligent Neural Networks
- Artificial Life
- Associative Memory
- Computational Intelligence
- Cognitive Science
- Embedology
- Filtering
- Fuzzy Neural Systems
- Hybrid Systems
- Image Processing
- Implementations (electronic, optical, biochips)
- Intelligent Control
- Learning and Memory
- Machine Vision
- Motion Analysis
- Neurobiology
- Neurocognition
- Neurodynamics
- Optimization
- Pattern Recognition
- Prediction
- Robotics
- Sensation and Perception
- Sensorimotor Systems
- Speech, Hearing and Language
- System Identification
- Supervised / Unsupervised Learning
- Tactile Sensors
- Time Series Analysis

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For Further Information Please Contact:

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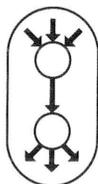
FUZZ-IEEE '94

Third IEEE International Conference on Fuzzy Systems

June 26 - 29, 1994 Orlando, Florida

as part of the

IEEE World Congress on Computational Intelligence (June 26 - July 2, 1994)



IEEE

In recent years, increasing attention has been devoted to fuzzy-logic approaches and their application to the solution of real-world problems.

The Third IEEE International Conference on Fuzzy Systems (FUZZ-IEEE '94) will be dedicated to the discussion of advances in:

- Basic Principles and Foundations of Fuzzy Logic
- Relations between Fuzzy Logic and other Approximate Reasoning Methods
- Qualitative and Approximate-Reasoning Modeling
- Hardware Implementations of Fuzzy-Logic Algorithms
- Design, Analysis, and Synthesis of Fuzzy-Logic Controllers
- Learning and Acquisition of Approximate Models
- Relations between Fuzzy Logic and Neural Networks
- Integration of Fuzzy Logic and Neural Networks
- Integration of Fuzzy Logic And Evolutionary Computing
- Applications to:
 - System Control
 - Intelligent Information Systems
 - Case-Based Reasoning
 - Decision Analysis
 - Modeling
 - Databases and Information Retrieval
 - Signal Processing
 - Image Understanding
 - Pattern Recognition
 - Robotics and Automation
 - Intelligent Vehicle and Highway Systems
 - Virtual Reality

This Conference will be a part of the 1994 IEEE World Congress on Computational Intelligence (WCCI-94). Two other conferences concerned with Neural Networks and Evolutionary Computing will complete the WCCI-94 program. **DEADLINE FOR PAPER SUBMISSION: December 10, 1993**

Conference Organizing Committee

General Chair:

Piero P. Bonissone
Artificial Intelligence Laboratory
General Electric CR & D

Conference Chairs:

Enrique H. Ruspini
Artificial Intelligence Center
SRI International

Hamid R. Berenji
Artificial Intelligence Research Branch
NASA Ames Research Center

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CONFERENCE ON EVOLUTIONARY COMPUTATION

June 29 - July 1, 1994 Orlando, Florida

as part of the

World Congress on Computational Intelligence

(June 26 - July 2, 1994)

General Chair:

Zbigniew Michalewicz

Program Chairs:

J. David Schaffer
America

H. P. Schwefel
Europe

Hiroaki Kitano
Asia / Australia

Topics of the Conference include:

- Theory of evolutionary computation
- Applications of evolutionary computation
- Efficiency/robustness comparisons with other direct search algorithms
- Parallel computer applications
- New ideas incorporating further evolutionary principles (multi-cellularity, various data structures, subpopulations, etc.)
- Artificial life
- Evolutionary algorithms for computational intelligence (optimal neural networks, optimal fuzzy controllers, etc.)
- Comparisons between different variants of evolutionary algorithms
- Machine learning applications
- Evolutionary computation for neural networks
- Fuzzy logic in evolutionary algorithms

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