

# Cognitive Science News

## THE ELEVENTH ANNUAL CONFERENCE OF THE COGNITIVE SCIENCE SOCIETY

The Eleventh Annual Conference of the Cognitive Science Society will be held August 16-19, 1989 at the University of Michigan in Ann Arbor, Michigan. This precedes the IJCAI meeting in Detroit the following week. The Conference will feature such topics as induction, decision theory, situated cognition, applications of cognitive science, language processing, problem solving, cognitive development and parallel distributed systems. The Conference schedule will include symposia, invited speakers, submitted papers, and a poster session covering the full range of the cognitive sciences. This year, for the first time, a pre-conference tutorial will be offered. David Rumelhart and Jay McClelland will be the instructors, providing an overview of connectionist research.

### *Organizing Committee:*

Gary M. Olson  
Director, Cognitive Science and Machine Intelligence Laboratory  
University of Michigan

Edward E. Smith, Professor of Psychology  
University of Michigan

### For further information contact:

Gary M. Olson  
Cognitive Science and Machine Intelligence Laboratory  
701 Tappan Street  
Graduate School of Business  
University of Michigan  
Ann Arbor, Michigan 48109-1234

### Inquires:

E-mail address: [gmo@csmil.umich.edu](mailto:gmo@csmil.umich.edu)  
Phone: (313) 747-4948

### IMPORTANT DATES:

Tutorial:	Wednesday, August 16, 1989
Conference:	Thursday-Saturday, August 17-19, 1989

**CALL FOR PAPERS****IEEE Conference on  
Neural Information Processing Systems  
— Natural and Synthetic —**

Monday, November 27–Thursday, November 30, 1989  
Denver, Colorado

This is the third meeting of a high quality, relatively small, inter-disciplinary conference which brings together neuroscientists, engineers, computer scientists, cognitive scientists, physicists, and mathematicians interested in all aspects of neural processing and computation. Several days of focussed workshops will follow at a nearby ski area. Major categories and examples of subcategories for papers are the following:

1. **Neuroscience:** Neurobiological models of development, cellular information processing, synaptic function, learning, and memory. Studies and analyses of neurobiological systems and development of neuro-physiological recording tools.
2. **Architecture Design:** Design and evaluation of net architectures to perform cognitive or behavioral functions and to implement conventional algorithms. Data representation; static networks and dynamic networks that can process or generate pattern sequences.
3. **Learning Theory:** Models of learning; training paradigms for static and dynamic networks; analysis of capability, generalization, complexity, and scaling.
4. **Applications:** Applications to signal processing, vision, speech, motor control, robotics, knowledge representation, cognitive modelling and adaptive systems.
5. **Implementation and Simulation:** VLSI or optical implementations of hardware neural nets. Practical issues for simulations and simulation tools.

**Technical Program:** Plenary, contributed, and poster sessions will be held. There will be no parallel sessions. The full text of presented papers will be published.

**Submission Procedures:** Original research contributions are solicited, and will be refereed by experts in the respective disciplines. Authors should submit four copies of a 1000-word (or less) summary and four copies of a single-page 50–100 word abstract clearly stating their results by May 30, 1989. Indicate preference for oral or poster presentation and specify which of the above five broad categories and, if appropriate, sub-categories (for example, *Learning Theory: Complexity*, or *Applications: Speech*) best applies to your paper. Indicate presentation preference and category information at the

bottom of each abstract page and after each summary. Failure to do so will delay processing of your submission. Mail submissions to Kathie Hibbard, NIPS89 Local Committee, Engineering Center, Campus Box 425, Boulder, CO, 80309-0425.

### **Organizing Committee**

Scott Kirkpatrick, IBM Research, General Chairman; Richard Lippmann, MIT Lincoln Labs, Program Chairman; Kristina Johnson, University of Colorado, Treasurer; Stephen J. Hanson, Bellcore, Publicity Chairman; David S. Touretsky, Carnegie-Mellon, Publications Chairman; Kathie Hibbard, University of Colorado, Local Arrangements; Alex Waibel, Carnegie-Mellon, Workshop Chairman; Howard Wachtel, University of Colorado, Workshop Local Arrangements; Edward C. Posner, Caltech, IEEE Liaison; James Bower, Caltech, Neurosciences Liaison; Larry Jackel, AT&T Bell Labs, APS Liaison

**DEADLINE FOR SUMMARIES & ABSTRACTS IS MAY 30, 1989**

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## **AUSTRIAN SOCIETY FOR CYBERNETIC STUDIES**

*Congress Announcement*

### **EMCSR 1990**

**10th European Meeting on Cybernetics and Systems Research**

April 17-20, 1990 at the University of Vienna, Austria

For call for papers and program contact the chairman:

#### **Robert Trappl**

Department of Med. Cybernetics and Artificial Intelligence  
University of Vienna

Freyung 6/2

A-1010 VIENNA

Austria (Europe)

Email: sec%ai-vie.uucp@{uunet.uu.net, cernvax.bitnet, mcvas}

Telex: 75312311 ofai a

Fax: +43 222 630652

Phone: +43 222 53532810

Plenary lectures and symposia on:

- *General Systems Methodology*
- *Fuzzy Sets and Systems*
- *Designing and Systems*

- *Humanity, Architecture, and Conceptualization*
- *Cybernetics in Biology and Medicine*
- *Cybernetics of Socio-Economic Systems*
- *The Management and Cybernetics of Organizations*
- *Innovation Systems in Business and Administration*
- *Robotics and Flexible Manufacturing*
- *Systems Engineering and Artificial Intelligence for Peace Research*
- *Communication and Computers*
- *Software Development for Systems Theory*
- *Artificial Intelligence*
- *Parallel Distributed Processing in Man and Machine*
- *Art and Artificial Intelligence*
- *Impacts of Artificial Intelligence*

The proceedings of the Ninth European Meeting on Cybernetics and Systems Research have been published as "Cybernetics & Systems '88", Robert Trappl, ed., by Kluwer Academic Publishers, Dordrecht.

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The Editors and Staff of *Cognitive Science*  
would like to congratulate their colleague  
Wendy Lehnert  
and her husband, Mark Snyder  
on the February 3rd birth  
of their twins  
Katherine and Annelisa.

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