

Cognitive Science News

EECE-5

FIFTH EUROPEAN CONFERENCE ON COGNITIVE ERGONOMICS

Siena (Italy), September 3-6, 1990

CALL FOR PAPERS

PROGRAM COMMITTEE: D. Ackermann (CH), S. Bagnara (I), P. Barnard (GB), P. Falzon (F), T.R.G. Green (GB), S. Greif (FRG), J.M. Hoc (F), A. Jørgensen (DK), G. Mancini (I), D. Murray (UK), L. Norros (SF), H. Pitariu (R), J. Rasmussen (DK), B. Shackel (GB), N. Streitz (FRG), M. Tauber (A), G. van der Veer (NL), Y. Waern (S), H. Wandke (GDR), G. d'Ydewalle (B).

ORGANIZING COMMITTEE: S. Bagnara (I), G. Mancini (I), G. van der Veer (NL), Y. Waern (S).

CONFERENCE CHAIR: S. Bagnara (I).

IN COLLABORATION WITH: Università degli Studi di Siena, CNR: Istituto di Psicologia, ENI.

GENERAL THEME: Cognitive Ergonomics is an interdisciplinary approach aiming at improving the quality of Human-Computer Interaction. Its endeavor is to develop a theoretical and methodological basis to predict human performance and satisfaction, in Computer Supported Tasks. Work in this field originates from disciplines like Cognitive Psychology, Ergonomics, Software Engineering and Computer Science. ECCE-5 will be devoted to confronting the different theories, models, methods, and data.

TOPICS: Task analysis—User interface issues related to task-oriented functionality—Predictive models of HCI—Learning, thinking, and social processes in HCI—Design methods for the user interface—Frames of reference for HCI design—Computer supported cooperation and distributed decision making—HCI evaluation methods.

ABSTRACT AND PAPER SUBMISSION: Abstracts of between 300 and 500 words should be submitted to the EACE Secretary before March 31, 1990. Upon the acceptance of the abstract by the Program Committee, a full manuscript of between 5 and 10 pages is to be submitted by June 30, 1990. Proceedings will be available for the participants at the conference. EACE considers publication of selected contributions, partly in a special

issue of *Acta Psychologica*, and partly in a volume to be published by Academic Press (London) in the "Computers and People" Series.

EACE SECRETARY: Drs Gerrit van der VEER—Department of Psychology—Free University—De Boelelaan 1111, Prov. I, room C102—1081 HV AMSTERDAM (THE NETHERLANDS). Tel: 31-20-5484405—Fax: 31-20-5484443—E.mail: gerrit@psy.vu.nl

CALL FOR PAPERS
IEEE Conference on
Neural Information Processing Systems
—Natural and Synthetic—
Monday, November 26—Thursday, November 29, 1990
Denver Colorado

This is the fourth meeting of an inter-disciplinary conference which brings together neuroscientists, engineers, computer scientists, cognitive scientists, physicists, and mathematicians interested in all aspects of neural processing and computation. Two days of focused workshops will follow at a nearby ski area (Nov 30–Dec 1). Major categories and examples of subcategories for paper submissions are the following;

- Neuroscience:** Neurobiological models of development, cellular information processing, synaptic function, learning and memory. Studies and analyses of neurobiological systems.
- Implementation and Simulation:** Hardware implementation of neural nets. VLSI, Optical Computing, and practical issues for simulations and simulation tools.
- Algorithms and Architectures:** Description and experimental evaluation of new net architectures or learning algorithms: data representations, static and dynamic nets, modularity, rapid training, learning pattern sequences, implementing conventional algorithms.
- Theory:** Theoretical analysis of: learning, algorithms, generalization, complexity, scaling, capability, stability, dynamics, fault tolerance, sensitivity, relationship to conventional algorithms.
- Cognitive Science & AI:** Cognitive models or simulations of natural language understanding, problem solving, language acquisition, reasoning, skill acquisition, perception, motor control, categorization, or concept formation.
- Applications:** Neural Networks applied to signal processing, speech, vision, character recognition, motor control, robotics, adaptive systems tasks.

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 carefully refereed. Authors must submit 6 copies of both a 1000-word (or less) summary and 6 copies of a separate single-page 50-100 word abstract clearly stating their results by May 17, 1990. At the bottom of each abstract page and on the first summary page indicate preference for oral or poster presentation and specify one of the above 6 broad categories and, if appropriate, sub-categories (For example: POSTER-Applications: Speech, ORAL-Implementation: Analog VLSI). Include addresses of all authors at the front of the summary and the abstract and to which author correspondence should be addressed. Submissions will not be considered that lack category information, separate abstract sheets, the required 6 copies, author addresses, or are late.

Mail Submissions To:

John Moody
NIPS*90 Submissions
Department of Computer Science
Yale University
P.O. Box 2158 Yale Station
New Haven, Conn. 06520

Mail Requests For Registration Material To:

Kathie Hibbard
NIPS*90 Local Committee
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Organizing Committee:

General Chair: Richard Lippmann, MIT Lincoln Labs; Program Chair: John Moody, Yale; Neurobiology Co-Chair: Terry Sejnowski, Salk; Theory Co-Chair: Gerry Tesauro, IBM; Implementation Co-Chair: Josh Alspector, Bellcore; Cognitive Science and AI Co-Chair: Stephen Hanson, Siemens; Architectures Co-Chair: Yann Le Cun, ATT Bell Labs; Applications Co-Chair: Lee Giles, NEC; Workshop Chair: Alex Waibel, CMU; Workshop Local Arrangements, Howard Wachtel, U. Colorado; Local Arrangements, Kathie Hibbard, U. Colorado; Publicity: Stephen Hanson, Siemens; Publications: David Touretzky, CMU; Neurosciences Liaison: James Bower, Caltech; IEEE Liaison: Edward Posner, Caltech; APS Liaison: Larry Jackel, ATT Bell Labs; Treasurer: Kristina Johnson, U. Colorado.

**FOURTH INTERNATIONAL CONFERENCE
ON INDUSTRIAL AND ENGINEERING APPLICATIONS
OF ARTIFICIAL INTELLIGENCE
AND EXPERT SYSTEMS (IEA/AIE-91)**

CALL FOR PAPERS

Submission Deadline Oct. 1, 1990

Waiohai Hotel, Kauai, Hawaii, June 2-5, 1991. Sponsored by ACM/SIGART and The University of Tennessee Space Institute, in cooperation with AAAI, IEEE Computer Society, International Association of Knowledge Engineers, Canadian Society for Computational Studies of Artificial Intelligence, International Neural Network Society, and ECCAI.

Submit four copies of an extended abstract written in English, 6-8 pages by Oct. 1, 1990 to Dr. Jim Bezdek, Program Chair IEA/AIE-91, Division of Computer Science, University of West Florida, Pensacola, FL 32514, USA. Phone; (904) 474-2784. Fax: (904) 474-2096. E-mail: JBEZDEK@UWF.BITNET.

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June 2-5, 1991

Waiohai Hotel, Kauai, Hawaii

For further information contact Dr. Moonis Ali, Conference General Chairman, The University of Tennessee Space Institute, MS15, B.H. Goethert Parkway, Tullahoma, TN 37388, USA. Phone: (615) 455-0631 ext. 236. Fax: (615) 454-2354. E-mail: ALIF@UTSIV1.BITNET.