

Cognitive Science News

11th International Joint Conference on Artificial Intelligence

Detroit, MI
August 20-26 1989

The International Joint Conferences on Artificial Intelligence (IJCAI) continue to be the premier forum for international scientific exchange and presentation of AI research. The next conference will be held in Detroit from August 20 through August 26, 1989. The conference is sponsored by the International Joint Conferences on Artificial Intelligence Inc. (IJCAI) and is cosponsored and hosted by the American Association for Artificial Intelligence (AAAI) and a broadly-based consortium of academic, industrial and governmental institutions in the Southeastern Michigan region.

The technical program will comprise a **Paper Track** focusing on empirical, analytical, theoretical, conceptual, foundational aspects and applied research; and a **Videotape Track** focusing on applications in all subfields best suited for this form of presentation.

The 11th IJCAI will feature:

- an outstanding technical program;
- state-of-the-art exhibit of AI-related hardware and software;
- stimulating and informative tutorials;
- special events that include prizes, awards, panels and workshops;
- visits to academic and industrial research centers and automobile manufacturing plants; and
- an interesting variety of extra-conference activities.

The official language of the conference is **English**, both for papers and videotapes. The major areas and subareas are indicated below.

A. AI Tools and Technologies

- A1. Machine Architectures, Languages, Shells
- A2. Parallel and Distributed Processing
- A3. Real-Time Performance

B. Fundamental Problems, Methods, Approaches

- B1. Search Methods
- B2. Knowledge Acquisition, Learning, Analogy
- B3. Cognitive Modeling
- B4. Planning, Scheduling, Reasoning about Actions
- B5. Automated Deduction

- B6. Patterns of Commonsense Reasoning
- B7. Other issues in Knowledge Representation
- C. Fundamental Applications**
 - C1. Natural Language, Speech Understanding and Generation
 - C2. Perception, Vision, Robotics
 - C3. Intelligent Tutoring Systems
 - C4. Design, Manufacturing, Control
- D. Perspectives and Attitudes**
 - D1. Philosophical Foundations
 - D2. Social Implications

For information, contact:

Program Chair: Paper submissions, reviewing, invited talks, panels, awards, and all matters related to the technical program.

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INNS 88 UPDATE AND CALL FOR PAPERS

International Neural Network Society

First Annual Meeting

September 6-10, 1988

Boston, MA

The International Neural Network Society (INNS) invites all those interested in the exciting and rapidly expanding field of neural networks to attend its 1988 Annual Meeting. Incorporated in 1987, INNS already includes among its members 1400 of the field's most active researchers and is growing rapidly. The meeting includes plenary lectures, symposia, contributed oral and poster presentations, tutorials, commercial and publishing exhibits, government agency presentations, and social events. These events will bring together scientists, engineers, government administrators, industrial administrators, and students in an open form for advancing the full spectrum of significant neural network research from biology through technology.

Complete attached forms for Conference and Tutorial Registration, Hotel Reservations, and Discounted Travel Reservations. **For exhibitor information** write: INNS Conference, J.R. Schuman Assoc., 316 Washington St., Box 125, Wellesley, MA 02181 USA, or telephone (617) 237-7931.

CALL FOR PAPERS

Neural Networks commenced quarterly publication in January, 1988. Articles span the full range of biological through technological neural network models.

The April, 1988, issue includes:

Allen Selverston: A consideration of invertebrate central pattern generators as computational data bases.

Kunihiko Fukushima: Neocognitron: A hierarchical neural network capable of visual pattern recognition.

Robert Hecht-Nielsen: Applications of counterpropagation networks.

Christoph von der Malsburg: Pattern recognition by labeled graph matching.

Demetri Psaltis, Cheol Hoon Park, and John Hong: Higher order associative memories and their optical implementations.

Instructions for Authors

Authors should submit four copies of each manuscript, plus original illustrations. Do references in American Psychological Association format; e.g., Hebb (1949). Submit from Asia and Australia to Prof. Shun-ichi Amari; from North and South America to Prof. Stephen Grossberg; from Europe and Africa to Prof. Teuvo Kohonen. Complete Instructions for Authors may be obtained from the Editors.

NEURAL NETWORKS WELCOMES SUBMISSION OF COMPLETE ARTICLES ON THE PRESENTATIONS GIVEN AT THE INNS ANNUAL MEETING.

**UNIVERSITY OF WATERLOO
CENTRE FOR THE NEW OXFORD ENGLISH DICTIONARY
4th ANNUAL CONFERENCE
CALL FOR PAPERS—CALL FOR PANELISTS
INFORMATION IN TEXT**

**October 27-28, 1988
Waterloo, Canada**

This year's conference will focus on ways that text stored as electronic data allows information to be restructured and extracted in response to individualized needs.

Papers presenting original research on theoretical and applied aspects of this theme are being sought. Typical but not exclusive areas of interest include computational lexicology, computational linguistics, syntactic and

semantic analysis, lexicography, grammar defined databases, lexical databases and machine-readable dictionaries and reference works.

Submissions will be refereed by a program committee. Authors should send 7 copies of a detailed abstract (5 to 10 double-spaced pages) by June 10, 1988 to the Committee Chairman, Dr. Gaston Gonnet, at:

UW Centre for the New OED
University of Waterloo
Waterloo, Ontario
Canada, N2L 3G1

Authors will be notified of acceptance or rejection by July 22, 1988. A working draft of the paper, not exceeding 15 pages, will be due by September 6, 1988 for inclusion in proceedings which will be made available at the conference.

One conference session will be devoted to a panel discussion entitled **MEDIUM AND MESSAGE: THE FUTURE OF THE ELECTRONIC BOOK**. The Centre invites individuals who are interested in participating as panel members to submit a brief statement (approximately 150 words) expressing their major position on this topic. Please submit statements not later than June 10, 1988 to the Administrative Director, Donna Lee Berg, at the above address. Selection of panel members will be made by July 22, 1988. The Centre is interested in specialists or generalists in both academic and professional fields (including editors, publishers, software designers and distributors) who have strongly held views on the information potential of the electronic book.