

THE FINITE STRING NEWSLETTER

CALLS FOR PAPERS

EMCSR 86

Eighth European Meeting on Cybernetics and Systems Research

1-4 April 1986 Vienna, Austria

SUBMISSION OF PAPERS

Acceptance of contributions will be determined on the basis of **Draft Final Papers**. These papers must not exceed 7 single-spaced A4 pages, in English. They have to contain the final text to be submitted; however, graphs and pictures need not be of reproducible quality.

The Draft Final Paper must carry the title, author(s) name(s), and affiliation(s) in this order. Please specify the symposium in which you would like to present your paper. Each scientist shall submit only one paper.

Send 3 copies of the Draft Final Paper, for receipt *no later than 1 October 1985*, to

Michael Schulte-Derne
Secretariat, EMCSR 86
Österreichische Studiengesellschaft für Kybernetik
Schottengasse 3
A-1010 Wien 1
Austria

In order to enable careful refereeing, Draft Final Papers received after the deadline will be returned.

Authors will be notified about acceptance no later than 15 November 1985. The publisher of the proceedings will provide them with detailed instructions for the preparation of the Final Paper.

It is understood that the paper will be presented personally at the Meeting by the contributor.

SYMPOSIA

- General Systems Methodology
G.J. Klir, *USA*
- Cross-Disciplinary and Empirical Refinement of Isomorphies
L. Troncale, *USA*
- Designing and Systems
W. Gasparski, *Poland*
- Humanity, Architecture, and Conceptualisation
G. Pask, *UK*
- Cybernetics in Biology and Medicine
G. Porenta, *Austria*, and L.M. Ricciardi, *Italy*
- Cybernetics of Socio-Economic Systems
G. Balkus, *USA*, and O. Ladanyi, *Austria*
- Computers in Health Care
W. Buchstaller and J. Retti, *Austria*
- Fuzzy Sets – Meeting of the EURO Working Group
C. Carlsson, *Finland*
- Systems Engineering for Design Automation
K. Kellermayr and F. Pickhler, *Austria*

- Communications, Computers, and Networking
D.W. Davis, *UK*, and E. Neuhold, *Austria*
- Methodological Improvements and New Applications of Expert Systems
W. Horn, *Austria*, and C.A. Kulikowski, *USA*
- Knowledge Based Natural Language Processing
R. Brachman, *USA*, and H. Trost, *Austria*

TUTORIALS

Half-day tutorials on Cybernetics and on Artificial Intelligence are planned.

SPECIAL CONFERENCE

A special conference on **FUTURE AND IMPACTS OF ARTIFICIAL INTELLIGENCE** will be held in conjunction with this meeting (see below).

FUTURE AND IMPACTS OF ARTIFICIAL INTELLIGENCE

1-4 April 1986

Vienna, Austria

to be held in conjunction with the preceding meeting

This Conference is a sequel to a meeting held in Laxenburg, Austria, on the same topic. Among its participants were: Margaret Boden, Ron Brachman, Stefano Cerri, Nils Nilsson, Peter Raulefs, Tibor Vamos. Its proceedings, *Impacts of Artificial Intelligence: Scientific, Technological, Military, Economic, Societal, Cultural, and Political*, [R. Trappl, Ed.; North Holland, Amsterdam and New York, 1985] will form the basis of this Conference.

The aim of this Conference is to help determine and assess future developments and impacts of AI in order to avoid potential damage and to encourage socially helpful and economically useful AI research and applications. It is addressed to

- the concerned AI researcher,
- the decision-maker in private companies, government, and funding institutions, and
- everybody who wants to know more about the potential risks and benefits of AI for her/his life.

This Special Conference will consist of presentations by invited speakers, notably leading AI researchers; contributed papers; panels; and general discussions.

The Proceedings of the Special Conference will be published separately and should include highlights from the discussions. They may be ordered at the Conference.

This Special Conference is supported by the International Federation for Systems Research (IFSR).

PAPERS: Colleagues who wish to contribute papers to the Special Conference are asked to follow the same rules as given for the Eighth European Meeting on Cybernetics and Systems Research (see above).

FUTURE COMPUTING SYSTEMS

This Journal will begin publication quarterly in spring 1985. Research and survey papers are sought with strategic and futures themes in all areas of computing including: device technology, machine architecture, software engineering, human-computer interface, artificial intelligence, robotics, and socio-economic impacts. Contact

Dr. M.L.G. Shaw
Department of Computer Science
York University
North York, Canada M3J 1P3
(416) 667-3928

CONFERENCE ANNOUNCEMENTS

THE SEVENTH ANNUAL CONFERENCE
OF THE COGNITIVE SCIENCE SOCIETY

15-17 August 1985

University of California, Irvine

The goal of the annual conference of the Cognitive Science Society is to provide a forum for the presentation of interdisciplinary scientific results in the various disciplines that comprise Cognitive Science, including Cognitive Psychology, Artificial Intelligence, Linguistics, Neurobiology, and Philosophy. The 1985 conference is jointly sponsored by the Cognitive Science Society, the Alfred P. Sloan Foundation, and the Biological Sciences Division of the Office of Naval Research. The conference will be held immediately preceding the International Joint Conference on Artificial Intelligence (IJCAI), which will be held at the University of California, Los Angeles.

MAJOR ADDRESSES

Endel Tulving, Department of Psychology, University of Toronto; Allen Newell, Department of Computer Science, Carnegie-Mellon University; Shimon Ullman, Laboratory for Computer Science, Massachusetts Institute of Technology; Roger Schank, Department of Computer Science, Yale University.

In addition, the conference will feature state-of-the-art symposia in Language, Learning, and Perception. Speakers so far scheduled to appear include: Bob Berwick, Ken Wexler, Jim McGaugh, Jaime Carbonell, Dave LaBerge, Gary Lynch, Pat Langley, Michael Posner, Don Hoffman.

AEROSPACE APPLICATIONS OF ARTIFICIAL INTELLIGENCE

16-19 September 1985

Dayton Convention Center, Dayton, OH

The annual AAAIC '85 Conference will be held in Dayton to establish the present state of the art in artificial intelligence in selected areas of importance. Each session will be keyed by a prominent researcher who can authori-

tatively differentiate between present capabilities and research requirements. Practitioners have been selected and invited to present papers on their work by conference chairpersons in conjunction with keynote speakers. This will be an annual conference structured to encourage maximum interaction between participants during sessions and social events. Conference attendance is limited. Exhibits will be open to the public.

FEATURED SPEAKERS

Among the notable speakers with expertise in the area of artificial intelligence, the agenda will include Dr. W. Bledsoe, MCC; Brig. Gen. P. Bouchard, Vice Commander, Aeronautical Systems Division; Dr. B. Chandrasekaran, Ohio State University; Dr. M. Fox, CMU; Dr. T. Garvey, SRI; Dr. V. Lesser, University of Massachusetts; Prof. D. Michie, University of Edinburgh; Prof. J. A. Robinson, Syracuse University; Dr. W. Rouse, Georgia Institute of Technology; Dr. E. Sacerdoti, Teknowledge; Dr. M. Stefik, Xerox PARC; and Dr. E. Taylor, TRW Company.

SELECTED SESSIONS

- Avionics
- Decision Support Systems
- Expert Systems and Building Tools
- Maintenance
- Man-Machine Interface
- Manufacturing
- New Architectures
- Programming Languages

ÖSTERREICHISCHE ARTIFICIAL INTELLIGENCE-TAGUNG 1985

24-27 September 1985

Universität Wien, Hauptgebäude

The Austrian Meeting on Artificial Intelligence will take place at the University of Vienna; it is organized by the Austrian Society for Artificial Intelligence (ÖGAI).

Papers concerning many aspects of AI will be presented and published in the proceedings. Conference languages are English and German.

In addition to the Meeting, a one-day tutorial offering an introduction to AI will be held on 24 September, and it is possible to visit several tutorial concerning main fields of AI on 25 September. For more detailed information on these tutorials, or on the Meeting, write:

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CHAIRMAN: J. Retti, *Vienna*

PROGRAM CHAIRMAN: H. Trost, *Vienna*