are in process, and what has been interrupted and suspended.

Penman is scheduled for use in an expert-system explanation context whose details are yet to be determined. We will study what functionality is required in FCCBMP. The study will lead to a design of code for this use of Penman. Implementation and demonstration of full functionality are expected following the user assistance work.

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CALLS FOR PAPERS

SECOND INTERNATIONAL WORKSHOP ON NATURAL LANGUAGE UNDERSTANDING AND LOGIC PROGRAMMING

17-20 August 1987, Vancouver, B.C., Canada

The workshop will consider fundamental principles and important innovations in the design, definition, uses, and extensions of logic programming to natural language understanding and, conversely, the adequacy of logic programming to express natural language formalisms. The main topics of interest are:

• Logic grammar formalisms
• Formal representations of natural language sentences and texts

• Resolution methods for specific aspects such as anaphoras, coordination
• Natural language generation
• Uses of techniques for logic grammars (unification) in other grammar formalisms
• Compilers and interpreters for grammar formalisms
• Applications: natural language front ends

DEADLINES

Submission of paper in final form   15 March 1987
Author notification of acceptance   1 June 1987
Workshop   17-19 August 1987
Final papers will be published in a book.

SUBMISSION OF PAPERS

Papers should contain the following: title, name and address(es) of author(s), affiliation(s), mailing address(es) and phone (or telex) number(s), and one program area. Papers must relate recent and unpublished work.

Please send four copies of an 8-12 page, single-spaced, typed manuscript, including a 150-200 word abstract, to:

Patrick Saint-Dizier
Department of Computing Science
Simon Fraser University
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V5A 1S6 CANADA

1987 WORKSHOP ON VISUAL LANGUAGES
IEEE COMPUTER SOCIETY

19-21 August 1987, Linköping, Sweden

Papers are invited on theory, methodology, and applications of visual languages, including both languages that have a heavy visual component and languages designed for operating on visual objects. Areas related to visual languages, such as man-machine interface, office automation, computer-aided design, computer hardware, and knowledge-based systems, are also of interest if the visual language aspect is in focus.

Topics include, but are not limited to

• Visual Data Structure
• Formal, Cognitive, and Semantic Models for Visual Languages
• Shape Grammars
• Visual Programming
• Visual Support for Software Production
• Visualization of Programs and their Behavior
• User Interfaces Using Visual Objects
• Representation and Acquisition of Visual Knowledge
• Icon and Iconic System Design
• Animation Research
• Multimedia Systems

Submit three copies of each paper – maximum length 5,000 words – to the Program Chairman (see below).

IMPORTANT DATES

Submission Deadline   20 February 1987
Acceptance Notification 20 April 1987
Final Copy Due   20 May 1987
Conference   19-21 August 1987

CONFERENCE CHAIRMAN

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THIRD ANNUAL EXPERT SYSTEMS IN GOVERNMENT CONFERENCE

19-23 October 1987, McLean, Virginia (tentative)

TOPICS OF INTEREST

The conference focuses on the use and development of expert systems by government agencies. The topics of interest include, but are not limited to, the following AI techniques and application areas:
- Knowledge Representation
- Knowledge Acquisition
- Reasoning under Uncertainty
- Expert Systems for Robotics
- Image Understanding
- Natural Language and Intelligent Interfaces
- Expert System Development Environments
- Distributed and Parallel Architectures
- Command and Control Applications
- Logistics Support Systems
- Financial and Project Management
- Nuclear Industry Applications
- Aerospace Applications
- Maintenance and Diagnostic Systems
- Software Lifecycle Applications
- Weather Forecasting

Proposals for panels and tutorials related to the topics of interest are also solicited.

SUBMISSION INFORMATION

Submit papers (three copies) and proposals (for panels, tutorials) to be received no later than **15 May 1987** by

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The Mitre Corporation
7525 Colshire Drive
McLean, VA 22102

The first page of the paper should contain the author's name, affiliation, address, electronic address if available, phone number, and 100 word abstract. Accepted papers will be allocated six manuscript pages in the proceedings. Authors will be notified of **acceptance or rejection by 1 July 1987. Camera-ready copy** for accepted papers is due by **1 August 1987.**

FURTHER INFORMATION

Conference Co-Chairmen

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SPECIAL CL ISSUE ON COMPUTATIONAL APPROACHES TO TENSE AND ASPECT

The central problem facing long-standing attempts by linguists and philosophers to account for the meaning of temporal and aspectual expressions in natural languages is that their semantics seems to be inextricably linked to more general processes of understanding discourse and other events in a changing world. Recently, computational linguists have joined in the fray, with the result that computational solutions have begun to be proposed. In light of these developments, it seems appropriate to devote a special issue of **Computational Linguistics** to this important topic. Bonnie Lynn Webber has agreed to serve as guest editor.

Three copies of the manuscript should be sent to
Professor Bonnie Lynn Webber
Department of Computer and Information Science
University of Pennsylvania
Philadelphia, PA 19104-6389, USA
ARPANet: Bonnie@CIS.UPenn.EDU
and two copies should be sent to
Professor James Allen (CL Editor)
Department of Computer Science

University of Rochester
Rochester, NY 14627, USA
ARPANet: ACL@Rochester.ARPA
Manuscripts should be received by 1 April 1987.

ANNOUNCEMENTS

FOURTH CONFERENCE ON
ARABIC COMPUTATIONAL LINGUISTICS

15-19 March 1987, University of Tunis

The Linguistics Department of the Social and Economic Research and Study Center in Tunis is organising this conference in collaboration with the Computer Science Department of the FSEG-Faculty, Sfax, the Faculty of Arts in Tunis and the IBLV of Tunis. For further information, contact

Dr. Ridha SOUISSI
C.E.R.E.S.
23 rue d'Espagne
1000 Tunis Recette principale
telephone (+216) 248 053

ICCH 1987

EIGHTH INTERNATIONAL CONFERENCE ON COMPUTERS
AND THE HUMANITIES

9-12 April 1987, University of South Carolina, Columbia, South Carolina

The Association for Computers and the Humanities and the Department of Computer Science of the University of South Carolina are pleased to announce the Eighth International Conference on Computers and the Humanities, to be held on Palm Sunday weekend to coincide with academic variations in North America and abroad. For further information, contact

ICCH87
c/o Professor Robert L. Oakman
Department of Computer Science
University of South Carolina
Columbia, SC 29208, USA

AILA SYDNEY 1987

EIGHTH WORLD CONGRESS
OF APPLIED LINGUISTICS

16-21 August 1987, University of Sydney, Australia

For information write to:
Department of Linguistics
University of Sidney
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STUDIES IN NATURAL LANGUAGE PROCESSING

Two new books in the Cambridge University Press series have just been published: *Computational Linguistics: An Introduction* by Ralph Grishman; and *Language and Spatial Cognition: An Interdisciplinary Study of Prepositions in English* by Annette Herskovits. *Semantic Interpretation and the Resolution of Ambiguity* by Graeme Hirst is expected shortly. Books under contract and in various stages of production are: *Machine Translation – Theoretical and Methodological Issues* by Sergei Nirenburg; an English translation of *Generation automatique de textes en langues naturelles* by Laurence Danlos; *Generalized Phrase Structure Grammars – Head Grammars and Natural Languages* by Carl Pollard. [UPDATE: In addition, one contract offer has been made and five manuscripts are under review.]

Manuscripts and editorial inquiries should be sent to
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Information for ordering is provided at the end of this issue.

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