

cloud the boundaries between the areas mentioned above even more than usual.

Historically, the current upsurge of interest in computational linguistics is, then, partly associated with the factor of rising general interest in concrete applications of computers, particularly microcomputers, with the idea that experience in language-oriented computer applications may be a useful kind of qualification for language and linguistics graduates in an age when traditional occupations such as state school language teaching are on the decline.

Another pragmatic factor is the current demand for research and development in natural language oriented branches of AI, in particular for German natural language access systems for databases and expert systems and in the context of machine translation, activities which have been increasing in importance over the past ten years in German universities, industry and in funding policy.

A factor which has perhaps contributed less to current interest than it has elsewhere is theoretical linguistics, with an interest in computational properties of natural languages, and in developments and controversies which have motivated the development of computational tools for the development and testing of linguistic descriptions. During the past decade, linguistics in Germany has been strongly descriptive, with emphasis on empirical and interpretative research in fields such as sociolinguistics, discourse analysis, and language acquisition, with less emphasis on the formal properties of language structures and processes. The inauguration of the "Sektion Computerlinguistik" in the DGfS has re-affirmed the importance of such issues, however.

A more detailed understanding of current interests may be gleaned from the SiC Summer School programme. Five types of events were offered: thematic courses, intensive practical programming courses in LISP and PROLOG (elementary and advanced), a lecture cycle by course teachers, invited and guest lectures, and panel discussions. Munich in September also offered a limitless range of additional activities, of course.

The courses were held by Hans Altmann and Joachim Jacobs (Munich), Rainer Baeuerle (Tuebingen), Robin Cooper (Madison & Edinburgh), Konrad Ehlich (Dortmund) and Jochen Rehbein (Hamburg), Hans-Juergen Eikmeyer (Bielefeld), Elisabet Engdahl (Madison & Lund), Guenter Goerz (Erlangen), Helmar Gust (Osnabrueck), Christopher Habel (Hamburg), Hans Haugeneder and Manfred Gehrke (Siemens, Munich), Roland Hauser (Munich), Wolfgang Hoepfner (Hamburg, Koblenz), Werner Kasllmeyer (Mannheim), Martin Kay (Xerox Palo Alto), James Kilbury (Trier), Juergen Krause (Regensburg), Wolfgang Kreitmair (Tuebingen), Michael Keoenig (Berlin), Sebastian Loebner (Dusseldorf), Katharina Morik (Berlin), Peter Sells (CSLI Stanford), Hans Guenther Tillman & Lieslotte Schiefer (Munich), Hans Uszkoreit (IBM Stuttgart

and Stanford), Dietmar Zaefferer (Munich), and Annie Zaenen (CSLI Stanford).

There was a wide range of topics, from more specifically descriptive and theoretical linguistics topics like "Syntax and Intonation," "Quantification," "Anaphora," and "Discourse Analysis" to contemporary linguistic theories (in particular GPSG, LFG, GB) and computational linguistic questions of parsing, unification, simulation, linguistic formalisms, with linguistically relevant AI topics such as knowledge representation or question-answer systems, and finally signal processing in experimental phonetics.

In addition to lectures by SiC course teachers, invited lectures were given on computational linguistic and AI NL topics by Lauri Karttunen (Stanford), Henk Zeevat (Edinburgh), Jun-Ichi Tsujii (Kyoto), Petr Sgall (Prague), Egbert Lehmann (Siemens Munich), Claus Rainer Rollinger (IBM Stuttgart), Jaap Hoepelman (Fraunhofer Gesellschaft Stuttgart), and Thomas Christaller (Gesellschaft fuer Mathematik und Datenverarbeitung St. Augustin).

The range of courses was rather wide; nevertheless, there remained sufficient coherence for students to be able to construct individual programmes, consisting as a rule of four of the courses (two hours, every other day) with complementary and interconnected topics. The present writer's selection was Kay on "Unification Grammar," Kilbury on "Parsing in PROLOG," Uszkoreit on GPSG and, further afield, Tillmann and Schiefer on "Signal Processing in Experimental Phonetics." Reactions to the courses were varied, of course, and tended to be polar and "Relevanz" oriented; not a few participants were dismayed at finding so much theoretical linguistics and so few recipes for instant NL systems.

But the impact of the SiC Summer School on German linguistics has already been considerable and positive, not least in re-encouraging work among German linguists in fundamental theoretical questions about language and computability, and fostering an awareness of the importance of "useful formalisms." The effect of the Summer School will undoubtedly continue to be felt in the coming years.

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**CONFERENCE ON  
THEORETICAL ASPECTS OF REASONING ABOUT  
KNOWLEDGE**

**6-9 March 1988, Asilomar Conference Center, Monterey,  
California**

SPONSORED BY: The IBM Corporation and the American Association for Artificial Intelligence.

While traditionally research in this area was mainly done by philosophers and linguists, reasoning about knowledge has been shown recently to be of great

relevance to computer science and economics. The aim of the conference is to bring together researchers from these various disciplines with the intent of furthering our theoretical understanding of reasoning about knowledge.

Some suggested, although not exclusive, topics of interest are:

- Semantic models for knowledge and belief
- Resource-bounded reasoning
- Minimal knowledge proof systems
- Analyzing distributed systems via knowledge
- Knowledge acquisition and learning
- Knowledge and commonsense reasoning
- Knowledge, planning, and action
- Knowledge in economic models

For information, contact the program chair:

Moshe Y. Vardi

IBM Research

Almaden Research Center K53-802

650 Harry Rd.

San Jose, CA 95120-6099

Telephone: (408) 927-1784

Electronic address:

vardi@ibm.com, vardi@almvma.bitnet

**PROGRAM COMMITTEE:**

J. Barwise, Stanford University

P. van Emde Boas, University of Amsterdam

H. Kamp, University of Texas at Austin

K. Konolige, SRI International

Y. Moses, Weizmann Institute of Science

S. Rosenschein, SRI International

T. Tan, University of Chicago

M. Vardi, IBM Almaden Research Center

We hope to allow enough time between the talks for private discussions and small group meetings. In order to ensure that the conference remains relatively small, attendance will be limited to invited participants and authors of accepted papers. Support for the conference has been received from IBM and AAI for partial subsidy of participants' expenses; applications for further support are pending.

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**CONFERENCE ON OFFICE INFORMATION SYSTEMS  
COIS88**

**23-25 March 1988, Palo Alto, California**

SPONSORED BY: ACM-SIGOIS and IEEE Computer Society TC-OA.

New ideas from artificial intelligence, database design, and user interfaces promise substantial changes in the ways that people work together and acquire knowledge.

Moreover, human organizations may provide important insights for the design of parallel processing and distributed artificial intelligence systems. Original research by technical experts will discuss progress, limitations, and implications of these topics. COIS is a conference devoted to intelligent processing of information in organizations.

**FOR INFORMATION CONTACT:**

Robert B. Allen

2A-367

Bell Communications Research

Morristown, NJ 07960

Telephone: 201-829-4315

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**SECOND INTERNATIONAL CONFERENCE ON  
THEORETICAL AND METHODOLOGICAL ISSUES  
IN MACHINE TRANSLATION OF NATURAL LANGUAGES**

**12-4 June 1988, Carnegie-Mellon University, Pittsburgh, Pennsylvania**

Contributions are solicited on all topics related to machine translation, machine-aided translation, and generally, automatic analysis and generation of natural language texts, the structure of lexicons and grammars, research tools, methodologies, knowledge representation and use, and theory of translation. Relevant submissions on other topics are also welcome.

**SUBMISSION INFORMATION**

Extended abstracts (not exceeding 1,500 words) should be sent to:

MT Conference Program Committee

Center for Machine Translation

Carnegie-Mellon University

Pittsburgh, PA 15213, U.S.A.

Telephone: (412) 268-6591

Submission Deadline: February 1, 1988

Notification of Acceptance: March 21, 1988

Final Version Due: April 18, 1988

All inquiries should be directed to the members of the organizing committee:

Jaime Carbonell: carbonell@c.cs.cs.cmu.edu, Sergei Nirenburg: sergei@nl.cs.cmu.edu, and Masaru Tomita: mt@k.cs.cmu.edu

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**HUMAN-MACHINE INTERACTION AND ARTIFICIAL  
INTELLIGENCE IN AERONAUTICS AND SPACE**

**28-30 September 1988, Toulouse, France**

As in the previous workshop held in Toulouse in October 1986, target domains will be Aeronautics and Space.

The objectives of this conference are to look at the state of the art in Human-Machine interaction and Artificial Intelligence, to help industries to formulate their needs, and to start new cooperative efforts between research and industry.

Applications of AI technology are now beginning to appear. Efforts need to be made to analyze and evaluate them.

Conference language is English — French with simultaneous translation.

The working topics for this conference are:

1. Methodological topics
  - a. Knowledge representation, acquisition and processing
  - b. Explanation of the reasoning
  - c. Machine learning
  - d. Interface languages
  - e. Human factors
2. Applications (in-flight and on the ground)
  - a. Maintenance
  - b. Planning
  - c. Education
  - d. Diagnosis
  - e. Supervisory control
  - f. Specification and design aids

#### TUTORIALS:

A half-day tutorial on the basis of AI and Human-Machine Interaction will be held before the conference.

#### PANELS:

A panel focusing on a particular topic will close the conference.

#### EXHIBITION:

There will be a commercial exhibition of AI hardware and software during the conference. All types of products will be presented (research, commercial, prototypes, etc.) A file including practical information about this exhibition will be available at the Secretariat.

#### SUBMISSION INFORMATION

Originality, relevance, and quality will be the main criteria for selection, which will be made by the International Programme Committee.

Two types of papers will be presented:

1. Long papers (30 min.)
2. Short papers (20 min.)

A 10-minute discussion will follow each talk. Some discussions will be grouped.

Submitted papers (20 pages maximum, 6 copies) must be sent to the Secretariat before January 15, 1988.

A standard paper will include:

- Title
- Authors' names
- Address
- Telephone, telex, and telefax numbers

- Abstract (10 lines) in English and French
- Keywords

Authors will be told about the decision of the International Programme Committee.

NOTE: Submitted papers received after January 15, 1988, will not be reviewed and will not be sent back to the authors. Deadline for submitted papers: 15 January 1988. Notification to selected authors, and mailing of camera-ready sheets: 15 March 1988. Full papers on camera-ready due on: 15 June 1988.

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### MACHINE TRANSLATION SUMMIT

17-19 September 1987, Hakone Prince Hotel, Japan

Machine translation systems are currently being developed throughout the world. How will these systems be used? What achievements have been made thus far? The Machine Translation Summit (MTS) will bring together users, research and development personnel, and government policy-makers to discuss these questions. Our aim is to promote the development of practical machine translation systems and to open up new perspectives in practical use of the systems.

The Hakone Prince Hotel is located two hours from Tokyo in the Fuji-Hakone-Izu National Park.

#### GENERAL INFORMATION

##### HOSTED BY:

Japan Electronic Industry Development Association (JEIDA)

##### SUPPORT:

- Ministry of International Trade and Industry
- Institute for New Generation Computer Technology
- Center of the International Cooperation for Computerization
- Japan Electronic Dictionary Research Institute

VENUE: Hakone Prince Hotel

ADDRESS: 144, Motohakone  
Hakonemachi  
Ashigarashimo-gun  
Kanagawa 250-05, Japan

##### SPECIAL EVENT:

Demonstration of the Machine Translation Systems to be held at the conference site.

RELATED EVENT: Data Show '87 which will be held from Sept. 16-19, 1987 at the Tokyo International Trade Center.

CONFERENCE CHAIRMAN: Makoto Nagao, Kyoto University

PROGRAM CHAIRMAN: Hozumi Tanaka, Tokyo Institute of Technology

For further information please contact:  
 MT Summit Secretariat c/o T. Saito Japan Electronic  
 Industry Development Association (JEIDA)  
 Address: Kikai Shinko Kaikan 3-5-8 Shiba Koen  
 Minato-ku Tokyo 105 Japan Phone: 03-433-1941 Telex:  
 J 27544 JEIDA Fax: 03-433-2003

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**ASSOCIATION FOR COMPUTATIONAL LINGUISTICS  
 SECOND CONFERENCE ON APPLIED NATURAL  
 LANGUAGE PROCESSING**

**9-12 February 1988, Austin Marriott at the Capitol,  
 Austin, Texas, USA**

**SPONSORED BY:** Association for Computational  
 Linguistics

**TUTORIALS  
 TUESDAY, FEBRUARY 9, 1988**

- 8:30 12:30 Introduction to Natural Language  
 Processing  
 James Allen, University of Rochester  
 Machine-Readable Dictionaries: A  
 Computational Linguistics Perspective  
 Bran Boguraev, Cambridge University,  
 and Beth Levin, Northwestern  
 University  
 Spoken Language Systems: Past,  
 Present, and Future  
 Salim Roucos, BBN Laboratories, Inc.
- 1:30 5:30 The Technology of Natural Language  
 Interfaces  
 Carole Hafner, Northeastern University  
 The Role of Logic in Representing  
 Meaning and Knowledge  
 Bob Moore, SRI International  
 Machine Translation  
 Sergei Nirenburg, Carnegie Mellon  
 University

**GENERAL SESSIONS**

**WEDNESDAY, FEBRUARY 10, 1988**

- 9:00 9:15 **OPENING REMARKS AND  
 ANNOUNCEMENTS**  
 Norman Sondheimer, General Chair  
 (USC/Information Sciences Institute)  
 Bruce Ballard, Program Chair (AT&T  
 Bell Laboratories)  
 Jonathan Slocum, Local Arrangements  
 Chair (MCC)  
 Donald E. Walker, ACL  
 Secretary-Treasurer (Bell  
 Communications Research)

**SESSION 1: SYSTEMS**

- 9:15 9:40 The Multimedia Articulation of  
 Answers in a Natural Language  
 Database Query System  
 Susan E. Brennan (Stanford University  
 & Hewlett Packard)
- 9:40 10:05 A News Story Categorization System  
 Philip J. Hayes, Laura E. Knecht and  
 Monica J. Cellio  
 (Carnegie Group)
- 10:05 10:30 An Architecture for Anaphora  
 Resolution  
 Elaine Rich and Susann LuperFoy  
 (MCC)

**SESSION 2: GENERATION**

- 11:00 11:25 The SEMSYN Generation System:  
 Ingredients, Applications, Prospects  
 Dietmar Roesner (Universitaet  
 Stuttgart)
- 11:25 11:50 Two Simple Prediction Algorithms to  
 Facilitate Text Production  
 Lois Boggess (Mississippi State  
 University)
- 11:50 12:15 From Water to Wine: Generating  
 Natural Language Text from Today's  
 Applications Programs  
 David D. McDonald (Brattle Research  
 Corporation) and Marie M. Meteer  
 (BBN Laboratories)
- 12:15 2:00 **LUNCHEON**  
 Guest Speaker: Grant Dove, Chairman  
 and CEO of MCC. Prior to joining  
 MCC in July 1987, Mr. Dove had been  
 with Texas Instruments for 28 years,  
 having served as Executive Vice  
 President since 1982.

**SESSION 3: SYNTAX AND SEMANTICS**

- 2:00 2:25 Improved Portability and Parsing  
 Through Interactive Acquisition of  
 Semantic Information  
 Francois-Michel Lang and Lynette  
 Hirschman (UNISYS)
- 2:25 2:50 Handling Scope Ambiguities in English  
 Sven Hurum (University of Alberta)
- 2:50 3:15 Responding to Semantically Ill-Formed  
 Input  
 Ralph Grishman and Ping Peng (New  
 York University) and  
 Evaluation of a Parallel Chart Parser  
 Ralph Grishman and Mahesh Chitrao  
 (New York University)

**SESSION 4: MORPHOLOGY AND THE LEXICON**

- 3:45 4:10 Triphone Analysis: A Combined Method for the Correction of Orthographical and Typographical Errors  
Brigitte van Berkel (TNO Institute of Applied Computer Science) and Koenraad DeSmedt (University of Nijmegen)
- 4:10 4:35 Creating and Querying Hierarchical Lexical Data Bases  
Mary S. Neff, Roy J. Byrd, and Omneya A. Rizk (IBM Watson Research Center)
- 4:35 5:00 Cn yur cmputr raed ths?  
Linda G. Means (General Motors)
- 5:00 5:25 Building a Large Thesaurus for Information Retrieval  
Edward A. Fox, J. Terry Nutter (Virginia Tech), Thomas Ahlswede, Martha Evens (Illinois Institute of Technology), and Judith Markowitz (Navistar International)
- 6:30 \*\*\*\* RECEPTION  
Microelectronics and Computer Technology Corporation (MCC)

**THURSDAY, FEBRUARY 11, 1988****SESSION 5: SYSTEMS**

- 8:30 8:55 Application-Specific Issues in Natural Language Interface Development for a Diagnostic Expert System  
Karen L. Ryan, Rebecca Root and Duane Olawsky (Honeywell)
- 8:55 9:20 The MULTIVOC Text-to-Speech System  
Olivier Emorine and Pierre Martin (Cap Sogeti Innovation)
- 9:20 9:45 Structure from Anarchy: Meta Level Representation of Expert System Propositions for Natural Language Interfaces  
Galina Datskovsky Moerdler (Columbia University)

**SESSION 6: TEXT PROCESSING**

- 10:15 10:40 Integrating Top-Down and Bottom-Up Strategies in a Text Processing System  
Lisa F. Rau and Paul S. Jacobs (General Electric)
- 10:40 11:05 A Stochastic Parts Program and Noun Phrase Parser for Unrestricted Text  
Kenneth W. Church (AT&T Bell Laboratories)

- 11:05 11:30 A Tool for Investigating the Synonymy Relation in a Sense Disambiguated Thesaurus  
Martin S. Chodorow, Yael Ravin (IBM Watson Research Center) and Howard E. Sachar (IBM Data Systems Division)

- 11:30 11:55 Dictionary Text Entries as a Source of Knowledge for Syntactic and Other Disambiguations  
Karen Jensen and Jean-Louis Binot (IBM Watson Research Center)

- 12:00 1:45 LUNCHEON  
Guest Speaker: Donald E. Walker  
Manager of Artificial Intelligence and Information Science Research at Bell Communications Research, and Secretary-Treasurer of ACL and IJCAI

**SESSION 7: MACHINE TRANSLATION**

- 1:45 2:10 EUROTRA: Practical Experience with a Multilingual Machine Translation System under Development  
Giovanni B. Varile and Peter Lau (Commission of the European Communities)

- 2:10 2:35 Valency and MT: Recent Developments in the METAL System  
Rudi Gebruers (Katholieke Universiteit Leuven)

- 3:00 5:00 PANEL: Natural Language Interfaces: Present and Future  
Moderator: Norman Sondheimer (USC/Information Sciences Institute)  
Panelists: Robert J. Bobrow (BBN Laboratories), Developer of RUS  
Jerrold Ginsparg (Natural Language Inc.), Developer of DataTalker  
Larry Harris (Artificial Intelligence Corporation), Developer of Intellect  
Gary G. Hendrix (Symantec), Developer of Q&A  
Steve Klein (Singular Solutions Engineering) Co-Developer of Lotus HAL

- 5:00 6:00 RECEPTION  
Austin Marriott at the Capitol

**FRIDAY, FEBRUARY 12, 1988****SESSION 8: SYSTEMS**

- 8:30 8:55 Automatically Generating Natural Language Reports in an Office Environment  
Jugal Kalita and Sunil Shende (University of Pennsylvania)

- 8:55 9:20 Luke: An Experiment in the Early Integration of Natural Language Processing  
David A. Wroblewski and Elaine A. Rich (MCC)
- 9:20 9:45 The Experience of Developing a Large-Scale Natural Language Text Processing System: CRITIQUE  
Stephen D. Richardson and Lisa C. Braden-Harder (IBM Watson Research Center)

**SESSION 9: MORPHOLOGY AND THE LEXICON**

- 10:15 10:40 Computational Techniques for Improved Name Search  
Beatrice T. Oshika (Sparta), Filip Machi (UC Berkeley), Bruce Evans (TRW), and Janet Tom (Systems Development Corporation)
- 10:40 11:05 The TICC: Parsing Interesting Text  
David Allport (University of Sussex)
- 11:05 11:30 Finding Clauses in Unrestricted Text by Finitary and Stochastic Methods  
Eva Ejerhed (University of Umea)
- 11:30 11:55 Morphological Processing in the Nabu System  
Jonathan Slocum (MCC)

**SESSION 10: SYNTAX AND SEMANTICS**

- 1:30 1:55 Localizing Expression of Ambiguity  
John Bear and Jerry R. Hobbs (SRI International)
- 1:55 2:20 Combinatorial Disambiguation  
Paula S. Newman (IBM Los Angeles Scientific Center)
- 2:20 2:45 Canonical Representation in NLP System Design: A Critical Evaluation  
Kent Wittenburg and Jim Barnett (MCC)

**For Information contact:**

Dr. Donald E. Walker (ACL) Bell Communications Research, 445 South Street, MRE 2A379, Morristown, NJ 07960-1961, USA; telephone: 201:829-4312; arpanet: walker@flash.bellcore.com; usenet: [ucbvax, decvax, ihnp4]!bellcore!walker

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**NINTH EUROPEAN MEETING ON  
CYBERNETICS AND SYSTEMS RESEARCH**

5-8 April 1988, Vienna, Austria

SPONSORED BY: Austrian Society for Cybernetic Studies

Plenary lectures and symposia on:

- General Systems Methodology
- Designing and Systems
- Humanity, Architecture, and Conceptualization

- Computer-Aided Systems Theory (CAST)
  - Cybernetics in Biology and Medicine
  - Cybernetics of Socio-Economic Systems
  - The Management and Cybernetics of Organizations
  - Innovation Systems in Business and Administration
  - Fuzzy Sets and Systems
  - Expert Systems and Approximate Reasoning
  - Robotics and Flexible Manufacturing
  - Systems Engineering for Peace Research
  - Artificial Intelligence
  - Parallel Distributed Processing in Man and Machine
- In conjunction with this conference 2 tutorials will be held:

1. Management Cybernetics
2. Artificial Intelligence

**For Information Contact**

Robert Trappl  
Department of Medical Cybernetics  
and Artificial Intelligence  
University of Vienna  
Freyung 6/2  
A-1010 VIENNA  
Austria (Europe)

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**26TH ANNUAL MEETING OF THE  
ASSOCIATION FOR COMPUTATIONAL LINGUISTICS**

7-10 June 1988, State University of New York, Buffalo, New York

**TOPICS OF INTEREST:**

Papers are invited on substantial, original, and unpublished research on all aspects of computational linguistics, including, but not limited to, pragmatics, discourse, semantics, syntax, and the lexicon; phonetics, phonology, and morphology; interpreting and generating spoken and written language; linguistic, mathematical, and psychological models of language; machine translation and translation aids; natural language interfaces; message understanding systems; and theoretical and applications papers of every kind.

**REQUIREMENTS:**

Papers should describe unique work that has not been submitted elsewhere; they should emphasize completed work rather than intended work; and they should indicate clearly the state of completion of the reported results.

**FORMAT FOR SUBMISSION:**

Authors should submit twelve copies of an extended abstract not to exceed eight double-spaced pages (exclusive of references) in a font no smaller than 10 point (elite). The title page should include the title, the name(s) of the author(s), complete addresses, a short (5-line) summary, and a specification of the topic area. Submissions that do not conform to this format will not be reviewed. Send to:

Jerry R. Hobbs  
 ACL88 Program Chair  
 Artificial Intelligence Center  
 SRI International  
 333 Ravenswood Avenue  
 Menlo Park, CA 94025, USA  
 Telephone: (415)859-2229  
 E-Mail: hobbs@warbucks.ai.sri.com

**SCHEDULE:**

Papers are due by 4 January 1988. Authors will be notified of acceptance by 8 February. Camera-ready copies of final papers prepared in a double-column format, either on model paper or in a reduced font size using laserprinter output, must be received by 4 April along with a signed copyright release statement.

**OTHER ACTIVITIES:**

The meeting will include program of tutorials organized by:

Ralph Grishman  
 Computer Science Department  
 New York University  
 251 Mercer Street  
 New York, NY 10012, USA  
 Telephone: (212)460-7492  
 E-Mail: grishman@nyu.arpa.

Anyone wishing to arrange an exhibit or present a demonstration should send a brief description together with a specification of physical requirements (space, power, telephone connections, tables, etc.) to:

Lynda Spahr  
 Department of Computer Science  
 SUNY Buffalo, Buffalo, NY 14260, USA  
 Telephone: (716)636-2464 or 3181  
 E-Mail: spahr@gort.cs.buffalo.edu,  
 spahr@buffalo.csnet,  
 spahr@sunybc.bitnet,  
 or !snybcs!spahr.

**CONFERENCE INFORMATION:** Local arrangements are being handled by:

William J. Rapaport (ACL)  
 Department of Computer Science  
 SUNY Buffalo  
 Buffalo, NY 14260, USA  
 Telephone: (716)636-3193, 3180  
 E-Mail: rapaport@gort.cs.buffalo.edu,  
 rapaport@buffalo.csnet,  
 rapaport@sunybc.bitnet,  
 or !snybcs!spahr.

For other information on the conference and on the ACL more generally, contact:

Don Walker (ACL)  
 Bell Communications Research  
 445 South Street  
 MRE 2A379, Morristown  
 NJ 07960, USA  
 Telephone: (201)829-4312  
 E-Mail: walker@flash.bellcore.com

or !bellcore!walker.

**PROGRAM COMMITTEE:** Jared Bernstein,  
 Jerry Hobbs, Roy Byrd,  
 Karen Jensen, Sandra Carberry,  
 Lauri Karttunen, Eugene Charniak,  
 William Rounds, Raymonde Guindon,  
 Ralph Weischedel, Lynette Hirschman,  
 Robert Wilensky

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**11TH INTERNATIONAL CONFERENCE ON  
 RESEARCH AND DEVELOPMENT IN INFORMATION  
 RETRIEVAL**

13-15 June 1988, Grenoble, France

Papers are invited on theory, methodology, implementation, and applications of information retrieval.

Communications from areas of prime interest for information retrieval, such as artificial intelligence, database systems, office automation, hardware technology, natural language processing, are welcome.

The main topics thus include, but are not limited to:

- Retrieval system modelling
- Information retrieval and artificial intelligence
- Evaluation techniques
- Hardware developments
- Natural language processing
- Information retrieval and database management
- User interfaces
- Advanced applications

**SUBMISSION INFORMATION**

Full-length papers should not exceed twenty or twenty five pages. Extended abstracts of about ten (10) pages are also accepted. Both must contain a complete author identification and an abstract of about a hundred words. Four (4) copies of each paper should be submitted to the Program Committee. Papers from North America should be sent to:

Gerard SALTON  
 Cornell University  
 Dept. of Computer Science  
 4130 Upson Hall  
 Ithaca, NY 14853-7501 U.S.A.

Submissions from outside North America should be sent to:

Eugene CHOURAQUI  
 GRIC-CNRS  
 31 chemin J. Aiguier  
 13402 MARSEILLE  
 Cedex 9  
 FRANCE

Submission deadline: January 15, 1988 Acceptance notification: March 21, 1988 Final copy due: May 16, 1988

Y. CHIARAMELLA  
 Laboratoire IMAG-“Genie Informatique”  
 BP 68-38402-StMARTIN D’HERES Cedex

FRANCE

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**SUMMER SCHOOL IN COMPUTATIONAL LEXICOLOGY  
AND LEXICOGRAPHY**

**25 July—12 August 1988, Scuola superiore di Studi  
Universitari e di Perfezionamento, Pisa, Italy**

**SPONSORED BY:** European Science Foundation

The Summer School in Computational Lexicology and Lexicography is intended for researchers and advanced students in linguistics, computational linguistics, computer science, lexicography, and terminology. It will focus on linguistic and computational methodologies and techniques for the collection, preparation, structuring, management, description, and diffusion of mono- and multilingual lexical and lexicographical data, and on their uses both in various research fields and in applications for human and computer usage.

The first week, introductory courses will be offered in selected aspects of computer sciences, linguistics as related to lexicology, computational linguistics, and lexicographic principles and practice.

The second two weeks will feature courses in

- Linguistic principles and lexicographical practice in the design of various types of dictionaries
- Computer-assisted analysis of textual corpora for the collection and structuring of lexicographical documentation
- Lexicographic workstations and the computer as an editorial tool
- Database management systems for linguistic data
- Monolingual and multilingual multifunctional databases
- Relationships with terminology and terminological databases
- Lexicon and linguistic theories: morphology, syntax, semantics, pragmatics
- Lexicon in natural language processing systems: parsing, generation, multilingual transfer
- Lexicon, knowledge representation, knowledge bases

For further information, contact:

ESF Summer School in Linguistics 3  
Christoph Muehlberg  
European Science Foundation  
1 quai Lezay-Marnesia  
F-67000 Strasbourg, France

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**XV INTERNATIONAL ALLC CONFERENCE  
ON LITERARY AND LINGUISTIC COMPUTING**

**5–9 June 1988, Jerusalem, Israel**

**SPONSORED BY:** Association for Literary and Linguistic Computing

**TOPICS:**

- Computational Morphology, Syntax and Semantics
- Mechanized Dictionaries, Lexicons and Thesauri
- Lemmatization, Parsing, Ambiguity

- Statistical Linguistics and Metrics
- Large Corpora, Full-text Systems and Text Retrieval

For information, contact:

Prof. Yaacov Choueka, Chairman, Organizing Committee, ALLC-AIBI Conferences Dept. of Mathematics and Computer Science Bar-Ilan University, Ramat Gan, Israel 52100 [choueka@bimacs.bitnet](mailto:choueka@bimacs.bitnet)

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**XV INTERNATIONAL AIBI CONFERENCE  
ON COMPUTERS AND BIBLICAL STUDIES**

**9-13 June 1988, Jerusalem, Israel**

**SPONSORED BY:** Association Internationale de Bible et Informatique

**TOPICS:**

- Bible and Computers: Methods, Tools, Results

For information, contact:

Prof. Yaacov Choueka Chairman, Organizing Committee, ALLC-AIBI Conferences Dept. of Mathematics and Computer Science Bar-Ilan University Ramat Gan, Israel 52100 [choueka@bimacs.bitnet](mailto:choueka@bimacs.bitnet)

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**TENTH ANNUAL CONFERENCE OF THE COGNITIVE  
SCIENCE SOCIETY**

**17–19 August 1988, McGill University, Montreal, Quebec, Canada**

The Conference will include major addresses and invited symposia on problem solving and reasoning, formal analysis of language, and the interaction between neurosciences and cognitive science.

Submission of papers, symposia and posters are encouraged in any of the areas of cognitive science. A call for papers and a Conference registration form will be mailed to all members of the Cognitive Science Society and related organizations early in 1988.

**FOR CONFERENCE INFORMATION:** Cognitive Science Secretariat, 3450 University Street, Montreal, Quebec, Canada H3A 2A7 Telephone: (514)398-3770

**FOR INFORMATION ON PAPERS:** Vimla Patel or Guy Groen, Centre for Medical Education McGill University, 3655 Drummond Street, Room 529, Montreal, Quebec, Canada H3G 1Y6 Telephone: (514)398-4987



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**INTERNATIONAL CONFERENCE NEW DIRECTIONS IN  
MACHINE TRANSLATION**

**18-19 August 1988, Budapest, Hungary**

SPONSORED BY: BSO/Research in the Netherlands and NJSZT (The John von Neumann Society for Computing Sciences) in Hungary.

During the 2-day conference, 15 speakers of international reputation (including such names as Boitet, Galinski, Hutchins, Tsujii, etc.) will cover:

— MT state-of-the-art, breakthroughs and prospects for the 1990s, interlingual architectures, automated lexicography and terminography, economic and strategic issues related to MT.

— All speakers at this conference will be invited speakers (i.e., this is NOT a call for papers!) The conference language is English.

— All enquiries regarding participation and registration will be handled only by NJSZT, at the Budapest address below, or at the electronic address: mtconf@dlt1.uucp

FOR SCIENTIFIC PROGRAM INFORMATION: BSO/Research P. O. Box 8348 NL-3503 RH Utrecht The Netherlands Telephone:(.31/0) 30-911911 Telex: 40342

FOR REGISTRATION AND LOCAL ARRANGEMENTS: NJSZT Budapest 5 P.O. Box 240 H-1368 Hungary Telephone: (361) 329-390 Telex: 225792 MTESZ H

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**COMPUTATIONAL LINGUISTICS AND FORMAL  
SEMANTICS**

**29 August-2 September 1988**

Palazzo dei Congressi, Lugano, Switzerland

SPONSORED BY: Institut Dalle Molle ISSCO, Geneva Istituto Dalle Molle IDSIA, Lugano

This workshop/tutorial aims both to give the non-specialist enough background to appreciate research-level discussion and to provide the specialist with the opportunity to conduct that discussion before a wider audience than would normally be the case. Discussion will focus on the relationship between the constraints imposed by computational linguistics and formal semantics on adequately characterizing important NL phenomena. Two kinds of presentation are planned: tutorial introductions to relevant topics, and workshop papers in which subjects of active research are discussed. Appropriate facilities for on-line demonstrations will be provided.

INVITED PRESENTATIONS INCLUDE TUTORIALS BY:

Jens Erik Fenstad (Oslo) Representation and Interpretation

Martin Kay (Xerox) Unification and the Syntax/Semantics Interface

Barbara Partee (UMass) Current Issues in Formal Semantics

WORKSHOP PAPERS BY:

Rod Johnson, Mike Rosner (Lugano) Situation Schemata and Linguistic Representation

Ewan Klein (Edinburgh) Context and Compositionality

Kris Halvorsen (Xerox) Algorithms for Semantic Interpretation

Pat Hayes (Xerox) Natural Language versus Mental Representations

Michael Moortgat (Leiden) Categorical Parsing and Implicational Deduction

Ray Turner (Essex) Polymorphism in Semantics Johan van Benthem (Amsterdam) Title forthcoming

Yorick Wilks (New Mexico) Form and Content in Semantics

FOR FURTHER INFORMATION, CONTACT:

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**TINLAP-3 POSITION PAPERS AVAILABLE FROM ACL**

**7-9 January 1987, New Mexico State University New Mexico**

The ACL has just published the Position Papers prepared for TINLAP-3, the Third Conference on Theoretical Issues in Natural Language Processing. TINLAP-3 was organized by Yorick Wilks and held at New Mexico State University, 7-9 January 1987. There were sessions on "Words and World Representations," "Unification and the New Grammatism," "Connectionist and Other Parallel Approaches to Natural Language Processing," "Discourse Theory and Speech Acts," "Why Has Theoretical NLP Made so Little Progress?," "Formal Versus Common Sense Semantics," "Reference: The Interaction of Language and the World," "Metaphor," and "Natural Language Generation."

Many of the papers in this proceedings were revised by their authors following the meeting. The price, payable to ACL, is:

\$20 for ACL personal and student members,

\$30 for individual nonmembers, and

\$50 for institutions.

Copies are available from: Dr. D.E. Walker (ACL) Bell Communications Research 435 South Street—MRE 2A379 Morristown, NJ 07960-1961, USA