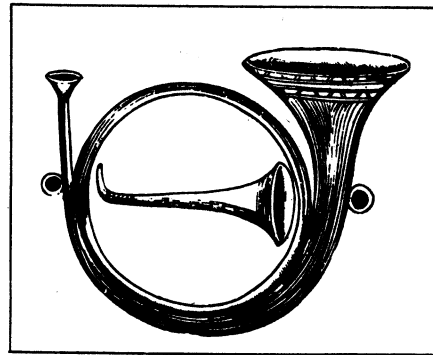


CALL FOR PAPERS

Calls for papers are listed according to deadline for submittal. Conferences in which the Computer Society is a sponsor or participant are indicated by the IEEE Computer Society logo; other calls of interest to our readers are also included. Submit information by the first of the month preceding the month of publication to Computer Magazine, 5855 Naples Plaza, Suite 301, Long Beach, CA 90803.



④ **Fifth Annual Symposium on Computer Architecture:** April 3-5, 1978, Palo Alto, California. Original papers on novel and recent developments on all aspects of computer architecture are solicited, with emphasis on, but not limited to, the following topics: system architectures, new technologies, LSI architecture, I/O structures, memories, firmware for operating systems, distributed architecture and networks, reliability and maintainability, performance evaluation, power and packaging. Four copies of the manuscript (no longer than 20 double-spaced typewritten pages) and one copy of the abstract should be submitted by **October 1, 1977**, to the program chairman: David Crockett, Hewlett-Packard, 11000 Wolfe Road, Cupertino, CA 95014; (408) 257-7000, Ext. 2629. Final papers are due **February 1, 1978**.

1978 IEEE International Symposium on Circuits and Systems: May 17-19, 1978, New York City. Papers are solicited in, but not restricted to, the following areas: new concepts and novel approaches for the analysis and design of circuits and systems; computer-aided techniques for the analysis, design, layout, testing, and manufacturing of circuits and systems; and new devices and circuits. Two types of papers are sought: regular papers suitable for 25-minute presentation (to be reviewed on the basis of the complete manuscript including an abstract); and short papers suitable for 15-minute presentations (to be reviewed on the basis of a 1000-word summary). Four copies of either type paper should be submitted by **October 1, 1977**, to the technical program chairman, Bede Liu, Department of Electrical Engineering and Computer Science, Princeton University, Princeton, NY 08540.

National Computer Conference: June 5-8, 1978, Anaheim, California. Original short papers (2500 words) and long papers (5000 words), accompanied by a 150-word abstract, are solicited on these and other topics: legislation and its impact, computing careers and education, EFTS, office automation, artificial intelligence, software project management, DP productivity aids, impact of new hardware technology, and distributed systems. Six typed, double-spaced copies of papers submitted for consideration must be received by **October 21, 1977**; they must be in final form with quality figures and tables ready for typesetting. Send submissions to conference chairman, Stephen W. Miller, Stanford Research Institute, 333 Ravenswood Ave., L 1109, Menlo Park, CA 94025 or to program chairman, Leonard Y. Liu, IBM Research Laboratory K51/282, 5600 Cottle Road, San Jose, CA 95193.

Twenty-Eighth Electronic Components Conference: April 24-26, 1978, Anaheim, California. Papers presenting new developments and knowledge in the following areas are invited: discrete components; hybrid microcircuits; interconnection and packaging; reliability, evaluation and failure analysis; materials; and manufacturing technology. Ten copies of a 500-word abstract and an extended outline clearly describing the nature, scope, content, organization, and key points of the proposed paper should be sent by **October 28, 1977**, to H. Joseph Gisler, Jr., General Electric Company, Bradley Park Plant, Lynchburg, VA 24502. Camera-ready copy is due **February 13, 1978**.

PERCOMP 78: April 28-30, 1978, Long Beach, California. Technical papers are sought in these and other areas: speech synthesis and recognition, music generation, programmed learning applications, software tutorials, graphic systems, IC testing, and hardware tutorials. Submit three copies of the abstract of an original paper by **October 31, 1977**; include author's name, company affiliation, complete return address, and telephone number. Mail to technical program chairman, James H. Lindwedel, PERCOMP 78, 1833 E. 17th St., Suite 108, Santa Ana, CA 92701. Final papers are due **January 13, 1978**.

Fourth International Congress of Cybernetics and Systems: August 21-25, 1978, Amsterdam, the Netherlands. Papers are solicited for seven respective section meetings on artificial intelligence, cybernetics of economic systems and management, industrial cybernetics (including automation), informatics and education, neuro- and bio-cybernetics, social systems, and systems and models (including environmental problems). Abridged papers of about 500 words, accompanied by 50-word summaries, are sought as are full-scale papers of 3000 words. Deadline for abridged material is **October 31, 1977**; for full-scale papers it is **April 30, 1978**. All papers except those for the social science section should be sent to Dr. J. Rose, c/o College of Technology, Feilden St., Blackburn BB2 1LH, Lancashire, England. Social Science material should be sent to Professor van der Zouwen, Department of Research Methods, the Free University de Boelelaan No. 1115, Amsterdam, The Netherlands.

The Mathematical Foundations of System Theory is the title of a special issue to be published in September 1978 by the IEEE Transactions on Circuits and Systems. Manuscripts are solicited for this issue dealing with any

aspect of the mathematical foundations of circuit and/or system theory and its applications; they should be sent to Professor R. Saeks, Department of Electrical Engineering, Texas Tech University, Lubbock, TX 79409, before **November 1, 1977**.

Eighth Conference on Computer Audit, Control, and Security: April 10-13, 1978, New York City. Papers are sought dealing with any aspect of EDP audit, control, and security, with particular interest on "how-to" papers, case histories, and accounts of personal experiences with advanced systems. A one-page abstract, along with a brief personal resume, should be mailed by **November 1, 1977**, to program chairman, Harold Weiss, Automation Training Center, Inc., 11250 Roger Bacon Drive #17, Reston, VA 22090.

④ **Fifth Joint College Curricula Workshop in Computer Science, Engineering, and Data Processing:** February 2-3, 1978, Orlando, Florida. Short papers are invited in the areas of computer science and engineering and data processing education on these and other topics: appraisals of data processing programs at community and junior colleges, information science programs, determination of student learning performance with CAI, course and subject integration techniques (spiral approaches), analyses of curricula material, and special undergraduate teaching techniques in business and engineering. Three copies of contributed papers (double-spaced, 2 to 15 pages long) should be sent to program co-chairman, Professor David Rine, Information Science, Western Illinois University, Macomb, IL 61455 by **November 15, 1977**.

④ **Third International Conference on Software Engineering:** May 10-12, Atlanta, Georgia. Papers are solicited, in particular, which provide details of experience using software engineering techniques, including data which serves to evaluate these techniques. Examples of subjects likely to serve as focal points of the conference are the following: systems development methodology—testing and verification, automated aids; programming—languages, standards; management of software development—productivity, staffing; case studies—real-time processing, system families; software quality—reliability, security/integrity; and education—curricula, professional development. Abstracts are requested by **October 1, 1977**. Four copies of the complete paper are due by **November 15th**; papers should be 2000 to 6000 words long (counting figures as 300 words apiece). Final copy is due **March 15, 1978**. Send abstracts and papers to the program chairman, Mr. L. A. Belady, IBM T. J. Watson Research Laboratory, P. O. Box 218, Yorktown Heights, NY 10598; (914) 945-2825.

International Conference on Management of Data: June 29-30, 1978. Fast, Milano, Italy. Research and application papers are solicited on these and other topics: data base systems architecture, data base languages, data base models, distributed data bases, data base management systems on minicomputers, access control, performance evaluation, and applications. Three copies of papers, complete with name, affiliation, and telephone of author, are required by **November 30, 1977**. They should be sent to program committee chairman, Giorgio Valle, Istituto di Elettronica, Facolta di Ingegneria, Universita di Bologna, 40136 Bologna, Italy, or to Dennis Tschritzis, Computer Systems Research Group, University of Toronto, Toronto, Canada M5S 1A4.

④ **Pattern Recognition and Image Processing Conference:** June 5-7, 1978, Chicago, Illinois. Papers are invited on all aspects of pattern recognition and image processing, including statistical and syntactic pattern recognition; clustering; shape and texture recognition; scene segmentation and analysis; image filtering, enhancing, and reconstruction; and medical, industrial, and remote sensing applications. There are two categories of contributed papers: long (about 5000 words and suitable for a 25-minute oral presentation), which are due **December 1, 1977**; and short (about 500 words and suitable for a 15-minute oral presentation), which are due **February 1, 1978**. Camera-ready copy in both categories is due **April 1, 1978**. Send image processing papers (in triplicate) to Professor K. Preston, Jr., Department of Electrical Engineering, Carnegie-Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213. All other papers should be sent (in triplicate) to Professor R. L. Kashyap, School of Electrical Engineering, Purdue University, West Lafayette, IN 47907.

④ **Workshop on Pattern Recognition and Artificial Intelligence:** April 12-14, 1978, Princeton, New Jersey. Papers are invited on the following topics: statistical techniques for pattern analysis and recognition; image processing and scene analysis; structural and syntactic methods for pattern recognition; formal language theory and natural language processing; new developments in speech understanding and recognition; AI and PR applications in medical diagnosis, industrial and laboratory automation, environmental and societal problems; and roles of mini- and microcomputers in AI and PR systems implementation. Send title and a 700-word summary by **December 1, 1977**, to Professor T. Pavlidis, 1978 PR-AI Workshop, Department of Electrical Engineering and Computer Science, Princeton University, Princeton, NJ 08540. Selected papers from the workshop will be published in the spring of 1979 in a special issue of *IEEE Transactions on Computers*.

④ **Impact of Microprocessors in Health Care Delivery:** April 10-12, 1978, College Station, Texas. Short papers (1000 to 3000 words) are sought on any aspect of microprocessor/microcomputer applications in the field of health care delivery. Topics include patient monitoring, diagnostic and laboratory equipment, consultation systems, prosthetic devices and reliability, and legal aspects of microprocessor based equipment. Submit four typed double-spaced copies by **December 1, 1977**, to either Dr. William M. Lively or Dr. William A. Hyman, Industrial Engineering Department, Texas A&M University, College Station, TX 77843. Camera-ready copy is due **February 1, 1978**.

International Conference on the Performance of Computer Installations: June 22-23, 1978, Gardone Riviera, Lake Garda, Italy. Papers are solicited in these and other areas: workload characterization, benchmarking, charging policies vs. performance, cost-benefit analysis of performance improvement, data base systems, and distributed systems. A 300- to 600-word abstract is required by **December 1, 1977**. Full papers (no more than 7000 words) are due **January 10, 1978**. Send three copies of abstracts and papers to Professor Domenico Ferrari, Computer Science Division, EECSS Department, University of California, Berkeley, CA 94720.

Third Jerusalem Conference on Information Technology: August 6-9, 1978, Jerusalem, Israel. Previously unpublished papers are sought primarily on the role of computers in the transfer of technology between large and small countries and between developed and developing societies. They may describe a successful application, original research, a report on the state-of-the-art, or a case study. Four copies of a manuscript (no more than 2500 words, typed double-spaced in English) and a 100-word abstract are due **December 15, 1977**. Send to Stanley Winkler, c/o Association for Computing Machinery, 1133 Avenue of the Americas, New York, NY 10036.

Conference on Information Sciences and Systems: March 29-31, 1978, The Johns Hopkins University, Baltimore, Maryland. Papers are invited describing new advances, applications, and ideas in the fields of computer science, digital systems, communication theory, and system and control theory. Two types of papers are sought: regular papers (for 30-minute presentations) and short papers (for 15-minute presentations). Submit title, detailed summary, and designation (regular or short) by **January 16, 1978**, to 1978 CISS, Department of Electrical Engineering, The Johns Hopkins University, Baltimore, MD 21218.

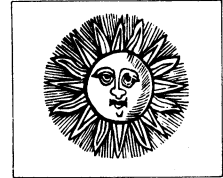
④ **Architecture of LSI modular computers, systems, and problem-oriented networks:** Special issue on designing complex computers and parallel systems on LSI modules, *Computer*, July 1978. Papers in the following areas will be considered: architecture of building LSI modules (microprocessors, microcomputers, register transfer chips, unique—or universal—LSI modules); architecture of LSI modular computers; multicomputer, multiprocessor systems with static, reconfigurable, dynamic architectures built from LSI modular computers; problem-oriented networks on LSI modules.

Authors are invited to submit three copies of their papers in 15-25 double-spaced typewritten pages by **February 1, 1978** to the guest editor, Dr. Steven I. Kartashev, DCA, Inc., 1210 Carlos Drive, Lincoln, NE 68505.

④ **Fourth International Joint Conference on Pattern Recognition:** November 7-10, 1978, Kyoto, Japan. Research papers on all aspects of pattern recognition are invited, including the following topics: statistical methods, clustering, image enhancement and restorations, line drawings, reconstruction problems, pattern perception, character recognition, speech recognition, robot vision, digital techniques, and special hardwares. Submit four copies of either a long paper (about 6000 words) or a short paper (about 3000 words) with a summary by **March 1, 1978**, to program chairman, Professor Makoto Nagao, Department of Electrical Engineering, Kyoto University, Sakyo, Kyoto, 606 Japan. Camera ready copy of accepted papers is due **August 1, 1978**.

CALENDAR

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Society for Information Display Conference, October 28, San Diego, California. Contact Program Chairman, SID National Office, 654 North Sepulveda Blvd., Los Angeles, CA 90049; (213) 472-3550.

④ **Eighteenth Annual Symposium on Foundations of Computer Science, October 31-November 2**, Providence, Rhode Island. Contact J. W. Carlyle, 4532 Boelter Hall, UCLA, Los Angeles, CA 90024; (213) 825-2240.

Joint Engineering Management Conference, October 31-November 1, Cincinnati, Ohio. Contact Paul H. Bluestein, Paul H. Bluestein & Company, 3420 Section Rd., Cincinnati, OH 45237.

④ **Computers in Aerospace, October 31-November 2**. Contact H. J. Harrington, McDonnell Douglas Corporation, Department E411, Bldg. 106/4, St. Louis, MO 63166.

Wang Laboratories 5th Annual SWAP Users Society Symposium, October 31-November 2, Boston, Massachusetts. Contact Society for Wang Applications and Programs, c/o Wang Laboratories, Inc., One Industrial Ave., Lowell, MA 01851.

NOVEMBER 1977

Interface West, November 1-3, Los Angeles, California. Contact Conference Director, Sheldon G. Adelson, 160 Speen St., Framingham, MA 01701.

New England Printed Circuits and Microelectronics Exposition 77, November 1-3, Woburn, Massachusetts. Contact Industrial and Scientific Conference Management, Inc., 222 West Adams St., Chicago, IL 60606.

Electrical Contacts Conference, November 1-3, Chicago, Illinois. Contact Dr. Ralph E. Armington, Electrical Engineering Department, Illinois Institute of Technology, Chicago, IL 60616.

AUTOTESTCON 77, November 2-4, Hyannis, Mass. For more information on the International Automatic Testing Conference, contact general chairman, E. B. Galton, RCA Corporation, P.O. Box 588, Burlington, MA 01803.

④ **Asilomar Conference on Circuits, Systems and Computers, November 6-9**, Pacific Grove, California. Contact John W. Woods, Rensselaer Polytechnic Institute, School of Engineering, Troy, NY 12181.

MIDCON, November 8-10, Chicago, Illinois. Contact Electrical and Electronics Exhibitions Inc., 999 N. Sepulveda Blvd., El Segundo, CA 90245; (213) 772-2965.