CALL FOR PAPERS

Call for papers for Computer

Computer is soliciting articles that cover all aspects of computer science, technology, and applications. Computer is aimed at a broad audience, whose interests are not limited to narrow specialties; articles are usually survey or tutorial in nature and cover the state of the art or important emerging developments. Submit six copies of the manuscript, including illustrations, references, and authors' biographies, to the editor-in-chief:

- Michael C. Mulder
  Applied Research
  University of Portland
  Portland, OR 97203
  Phone (503) 281-7433

In addition, special issues of Computer are being organized. Submit six copies of relevant articles directly to the guest editor:

- Design and Implementation of Parallel Programming Languages: Submit by October 15, 1985, to David Gelertner, Yale University, Dept. of Computer Science, PO Box 2158 Yale Station, New Haven, CT 06520.
- Technical articles on any subject of current interest to Computer Society members are considered for publication; submit to Michael Mulder.

An authors' information sheet can be obtained from Michael Mulder at the above address or from the IEEE Computer Society West Coast Office, 10662 Los Vaqueros Circle, Los Alamitos, CA 90720; (714) 821-8380.

Future Computing Systems: Research and survey papers are sought in all areas of computing (including device technology, machine architecture, software engineering, human-computer interface, artificial intelligence, and robotics) and on the socioeconomic impact of computer technology. Persons interested in submitting material are asked to contact M. L. G. Shaw, Dept. of Computer Science, York University, North York, Ontario M3J 1P3, Canada.


IEEE Transactions on Software Engineering: Papers are sought for three special issues. The first, which will be about achieving safe and reliable software for real-time process control, is tentatively scheduled for publication in spring 1986. Suggested topics include, but are not limited to, software specifications for real-time, safety-critical systems; software design for safety and reliability; software verification and validation; software safety and reliability assessment; and software fault tolerance for safety and reliability. Send six copies of a complete paper by August 31, 1985, to Nancy G. Leveson, Information and Computer Science Dept., University of California, Irvine, CA 92717; (714) 856-5517. The second special issue will focus on software maintenance. Suggested topics include models of software evolution; software specification, development, or design practices that enhance the maintainability of software; software maintenance methodology; integration of hardware and software maintenance approaches; maintenance practices; software maintenance management; documentation standards; software maintenance metrics; software change control; software maintainability models; and software maintenance error analysis. Send six copies of papers by September 1, 1985, to Norman Schneidewind, Code 54 SS, Naval Postgraduate School, Monterey, CA 93943; (408) 646-2719 or .3211; ARPA-NET NSCHNEID@ISIA; COMMPMAIL NSCHNEIDWIN. The third special issue will be devoted to advances in software engineering for Ada technology. Topics of interest include front-end software life-cycle techniques and tools, language processors, reliability, models and metrics, testing and verification methods, database support, and project management. Submit six copies of the manuscript by March 1, 1986, to Joseph E. Urban, University of Southwestern Louisiana, Center for Advanced Computer Studies, PO Box 44330, Lafayette, LA 70504. (Guidelines for submitting manuscripts appear on page 315 of the March 1985 issue of IEEE Transactions on Software Engineering.)

1985 International Display Research Conference (IEEE, SID): October 15-17, 1985, San Diego, California. Submit 100-word abstracts and one-to-two-page draft summaries of papers on important new projects, suitable for 10-minute presentations, by September 9, 1985, to the Palisades Institute for Research Services, Inc., IDRC, 201 Varick St., New York, NY 10014; (212) 620-3388. Overseas authors are asked to contact the institute for additional submission requirements.


CSC-86, 14th Annual ACM Computer Science Conference: February 4-6, 1986, Cincinnati, Ohio. Send five copies of papers (suitable for submission) by December 15, 1985, to the Program Chair, ACM Northeast Regional Conference, PO Box 499, Sharon, MA 02067.
20-minute presentations; 10 pages maximum by September 15, 1985, to Larry A. Crum, Wright State University, Dept. of Computer Science, Dayton, OH 45435. Abstracts (500 words maximum) of short reports (suitable for 12-minute presentations) are also sought.


Sixth International Conference on Distributed Computing Systems: May 19-23, 1986, Cambridge, Massachusetts. Topics of interest include architectures, networks, operating systems, programming languages, distributed databases, communication protocols, fault tolerance, applications, and performance evaluation. Submit five copies of papers that include a 150-word abstract by September 15, 1985, to William C. McDonald, System Development Corp., 8810 Bradford Blvd., Huntsville, AL 35805, (205) 837-7610.


Performance 86 and ACM Sigmetrics 86, Joint Conference on Computer Performance Modeling, Measurement, and Evaluation (ACM, IFIP, IRISA/INRIA): May 28-30, 1986 (tutorial will be offered May 27), Raleigh, North Carolina. Papers (20 pages maximum) are solicited on both practical and theoretical aspects of computer systems performance. Submit six copies by September 23, 1985, to William J. Stewart, IRISA, Campus Universitaire de Beaulieu, Ave. du General Leclerc, F-35042 Rennes Cedex, France; phone 33 (99) 36-20-40, or Krish I. Trivedi, Dept. of Computer Science, Duke University, Durham, NC 27706; (919) 684-3048.


IEEE Computer Society International Conference on Ada Applications and Environments: April 7-10, 1986, Miami Beach, Florida. Submit six copies of a paper (20 to 30 pages, including an abstract) by October 15, 1985, to Derek Morris, Stevens Institute of Technology, Dept. of Electrical Engineering and Computer Science, Hoboken, NJ 07030.

FTCS-16, 16th International Symposium on Fault-Tolerant Computing (IFIP): July 1-3, 1986, Vienna, Austria. Submit abstracts (150 words maximum) that include five keywords by October 25, 1985, to FTCS-16, Intercvention Hofburg, PO Box 80, A-1107 Vienna, Austria; phone (43) 222 52-02-93.


NECC-86, Seventh National Educational Computing Conference (ACM, IEEE, SCS): June 4-6, 1986, San Diego, California. Submit four copies of a paper (15 pages maximum), and proposals for sessions, workshops and projects by November 1, 1985, to NECC-86, University of San Diego, School of Education, Alcala Park, San Diego, CA 92110.


International Symposium on Information Theory (IEEE): October 5-9, 1986, Ann Arbor, Michigan. Papers suitable for 40- and 20-minute presentations are sought. Long papers will be reviewed on the basis of a complete manuscript; short papers will be reviewed on the basis of a 500-word summary. Submissions in both categories should be accompanied by an abstract (180 words maximum). Submit materials for long papers by February 1, 1986, and materials for short papers by March 1, 1986, to Stuart C. Schwartz, Princeton University, School of Engineering and Applied Science, Dept. of Electrical Engineering, Princeton University, Princeton, NJ 08544.


Internetwork Researcher Personal Distributed Processing

The MITRE Corporation, established over 25 years ago to provide the U.S. government a broad range of system engineering services, is exploring a new model for building LAN-based applications. This research builds on previous work with DARPA-standard internetworking protocols and our own local area networks to focus on the issues of (high-level) program communication. We are investigating light-weight program-to-program protocols to bridge together applications built with their interfaces and functions separated by a plethora of transmission media, and with their interfaces and functions implemented in different programming languages, in a variety of PCs or hosts, and under different operating systems. Applications built this way will support a computing environment we call personal distributed processing.

This research explores new ground. We are looking for an internetwork researcher to join a small research team. The applicant should have a strong and proven record in communication protocols, operating systems, and programming languages, and at least a Master of Science degree in Computer Science. We offer in turn a stimulating research environment rich in computing resources.

For further information contact Jose Nabielsky (jnd@mitre-gateway.ARPA) at (703) 883-693 or Dave Wood (wood@mitre.ARPA) at (703) 883-6394. Or forward your resume to A.C. Von Dyke, The MITRE Corporation, 1820 Dolley Madison Blvd., McLean, VA 22102. U.S. Citizenship required. We are an equal opportunity/affirmative action employer.

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