



CALLS FOR IEEE CS PUBLICATIONS

IEEE Software seeks articles for a special issue on benchmarking software organization. Topics include case studies of partner-based benchmarking; cross-industry comparisons of organizational or project performance (for example, productivity and quality); lessons learned for effective benchmarking; and descriptions, evaluations, and critiques of benchmarking approaches. We will consider short news articles describing the availability of unique benchmarking resources. We are also seeking potential participants for a survey of software benchmarking products and services. Authors of news articles and survey participants should respond by **1 Feb. 2001** to guest editor David Zubrow, dz@sei.cmu.edu. Submit regular articles by **28 Feb. 2001** to guest editor David Card, card@software.org.

IEEE Computer Graphics & Applications seeks original research papers for a September 2001 special issue on applied perception. Guest editors Jack Tumblin and James Ferwerda seek papers that use knowledge of human perceptual abilities to develop methods for connecting the world of computers to the world of everyday human perception. Potential topics include perceptual issues in computer graphics modeling, rendering, and display; perceptual aspects of human-computer interaction; psychophysical quality metrics for rendering, modeling, and imaging applications; vision-based algorithms for image compression and enhancement; multisensory display and input technologies including haptics, smell, audio, and the like; and computer graphics applied to prosthetics and assistive technology. Send six copies of full papers by **1 Mar. 2001** to

Jack Tumblin, Program of Computer Graphics, 580 Rhodes Hall, Cornell University, Ithaca, NY 14853; jet@graphics.cornell.edu.

IEEE Transactions on Computers seeks original manuscripts for a May 2002 special issue on asynchronous real-time distributed systems. Topics include timeliness models and paradigms, scheduling and multilevel resource management, asynchronous event handling, multidimensional application-level QoS models and techniques, QoS specification and negotiation mechanisms, failure detection and recovery, adaptive resource management, adaptive communication, reliable communication protocols, distributed agreement, synchronization and concurrency control, performance evaluation, testing and debugging, and case studies and experiences. Submissions are due **31 Mar. 2001**. Guest editors are E. Douglas Jensen, Jensen@real-time.org, and Binoy Ravindran, binoy@vt.edu. For submission details, see <http://www.ee.vt.edu/~tocs/>.

IEEE Transactions on Computers seeks original manuscripts for a summer 2002 special issue on database management and mobile computing. Topics include mobile database transaction models; data distribution, replication, caching and synchronization; recovery and fault tolerance; mobility awareness and adaptability; wireless software, service, and application infrastructures; location management and mobility management for wireless networks; mobile query languages and query processing; mobile e-commerce; and mobile objects and agents: models and languages. Submissions are due **30 June 2001**. Guest editors are Wang-Chien Lee, wlee@gte.com; Sandeep Gupta, gupta@cs.colostate.edu; and Pradip Srimani, srimani@cs.clemson.edu. For submission details, see <http://www.cs.clemson.edu/~srimani/tc/cfp.html>.

IEEE Intelligent Systems seeks papers describing robot systems that represent innovative solutions to the integration problem in intelligent robotics for a special issue on semisentient robots: routes to integrated intelligence. Preference will

be given to papers describing robots that actually demonstrate the integration of human-robot communication (including gestures and spoken language), real-time action, reasoning, and learning (at the symbolic level as well as at the control level). The emphasis will be more on promising work in progress rather than carefully documented and evaluated experiments. Manuscripts should not exceed 7,500 words, with up to 10 references. Send manuscripts to lsl@det.ua.pt in PDF (preferred) or PostScript format by **31 Jan. 2001**. Guest editors are Luis Seabra Lopes, lsl@det.ua.pt, and Jonathan Connell, jconnell@us.ibm.com. For author guidelines, see <http://www.computer.org/intelligent/author.htm>.

Papers should range from 3,000 to 7,500 words, including figures, which each count as 250 words. To submit an article, send one double-spaced complete copy and a cover letter or e-mail to Angela Williams, Manuscript Assistant, *IEEE Intelligent Systems*, 10662 Los Vaqueros Circle, P.O. Box 3014, Los Alamitos, CA 90720-1314; phone +1 714 821 8380; fax +1 714 821 4010; awilliams@computer.org. For author guidelines, see <http://computer.org/intelligent/author.htm>.

The IEEE Computer Society seeks general-interest submissions for six transactions. These scholarly archival journals inform readers on the state of the art in subfields of computing, and include the following titles: *Transactions on Computers*, *Transactions on Knowledge & Data Engineering*, *Transactions on Pattern Analysis & Machine Intelligence*, *Transactions on Parallel & Distributed Systems*, *Transactions on Software Engineering*, and *Transactions on Visualization & Computer Graphics*. For more information and links to specific titles, see <http://computer.org/author/transguide/>.

OTHER CALLS

ICSM 2001, IEEE Int'l Conf. on Software Maintenance, 6-10 Nov., Florence, Italy. Tutorials due **12 Feb.** to icsm2001.tutorial@unisannio.it; and industrial application presentations due **12 Mar.** to icsm2001.industry@unisannio.it. Contact Paolo Nesi, nesi@dsi.unifi.it. See <http://www.dsi.unifi.it/icsm2001>.

Computer Society Online

For more information on calls for papers, conferences, workshops, and symposia, check our full listing online at <http://computer.org/conferences/>. For detailed access information, send query to online.access@computer.org.

Call and Calendar

WIAPP 01, 2nd IEEE Workshop on Internet Applications, 23-24 July, San Jose, Calif. Submissions due **1 Feb.** Contact Steve Gribble, gribble@cs.washington.edu. See <http://www.cs.berkeley.edu/~gribble/wiapp01>.

NATW 01, IEEE 10th North Atlantic Test Workshop, 24-25 May 2001, Gloucester, Mass. Papers due **2 Feb.** Contact Xinghao Chen, xinghaoc@vnet.ibm.com. See <http://www.ecs.umass.edu/natw/>.

IEEE 3rd Int'l Conf. on Cluster Computing, 8-11 Oct., Newport Beach,

Calif. Submissions due **12 Mar.** Contact Kai Hwang, kaihwang@ceng.usc.edu. See <http://andy.usc.edu/cluster2001/>.

10th Int'l Workshop on Logic & Synthesis, 12-15 June, Lake Tahoe, Calif. Submission deadline **12 Mar.** See <http://www.iwls.org>.

PACT 2001, Int'l Conf. on Parallel Architectures & Compilation Techniques, 8-12 Sept., Barcelona, Spain. Papers due **15 Mar.** See <http://www.ac.upc.es/pact01/>.

2001 Int'l Test Conf., 28 Oct.-1 Nov., Baltimore. Submissions due **16 Mar.** Contact ITC, itc@courtesyassoc.com. See <http://www.itctestweek.org/cfp2001.html>.

14th Int'l Symp. on System Synthesis, 1-3 Oct., Montreal. Papers due **30 Mar.** Contact El Mostapha Aboulhamid, aboulham@iro.umontreal.ca. See <http://www.isss-symposium.com>.

22nd IEEE Real-Time Systems Symp., 26-29 Nov., London. Paper submission deadline is **1 May.** See <http://rtss2001.sssup.it/>.

Call for Articles for *Computer*

Computer seeks articles for a special issue on embedded system security, to appear in October 2001. Guest editors are William A. Arbaugh, University of Maryland, and Leendert Van Doorn, IBM Research.

Embedded systems range from personal digital assistants to disk controllers and from home thermostats to microwave regulators. These near-ubiquitous devices are often networked and thus present security challenges similar to those already of concern on the Internet. This special issue will consider the security and privacy implications that networked embedded systems present.

Submissions are sought on all topics relating to embedded system security including risk analysis, privacy issues, legal implications, intellectual property protection, software security architectures, security requirements for embedded operating systems, embedded cryptographic devices, using embedded devices to build secure systems, and secure firmware upgrades.

The submission deadline is **15 March 2001**. Contact William Arbaugh at waa@cs.umd.edu.

Computer seeks articles for a special issue covering on-demand video services, to appear in September 2001. Guest editors are Jonathan C.L. Liu, University of Florida, and David H.C. Du, University of Minnesota.

Many fields—including education, business, medical, and military professions—can benefit from video-on-demand and streaming audio technologies. However, providing a large number of concurrent high-quality video streams with guaranteed application-level performance still presents great challenges for system designers. Typical research areas examine efficient schemes for the components, including storage and network systems in addition to set-top box design and intelligent processing.

The guest editors seek papers that address a wide range of issues including video servers, storage systems, network systems, protocol design, set-top box systems, video processing, and experiences with large-scale broadband trials.

The submission deadline is **15 April 2001**. Send an electronic file to Jonathan Liu at jliu@cise.ufl.edu.

Computer seeks articles for a special issue on engineering of computer-based systems, to appear in November 2001. Guest editors are Stephanie White, Long Island University; Harold “Bud” Lawson, Lawson Konsult AB; and Bonnie Melhart, Texas Christian University.

CBSs are composed of software, electronics and, frequently, mechanical components. They must meet functional, performance, and dependability requirements that demand tight integration of heterogeneous components, distributed

processing and databases, and internal and external communication systems. CBSs are not only complex in and of themselves, but they operate in complex environments, frequently involving both humans and physical components. To design such systems, engineers must thoroughly understand complex application domain scenarios and technology, possible trade-offs in system design, the interaction between the system and the domain, and the realization of heterogeneous system elements. Interdisciplinary development is necessary, and system engineering is needed to coordinate the whole.

The goal of this special issue is to address the current state of technology in engineering computer-based systems. We are interested in papers that take a holistic approach, integrating systems engineering technology with the technology of engineering fields such as software, hardware, or codesign, and technology that is applicable across application domains. Topics of special interest include model-based engineering, integrated architecture, system composition strategies, tool composition technology, and other processes that organize and manage system complexity. We encourage case studies, especially those that report on commercial systems with a relatively short development cycle.

The submission deadline is **1 April 2001**. Send an electronic file to Bonnie Melhart at b.melhart@tcu.edu.

ICDM 01, 2001 IEEE Int'l Conf. on Data Mining, 29 Nov.-2 Dec., Silicon Valley, Calif. Papers and workshop proposals due 15 June; tutorials due 30 June. Contact Xindong Wu, xindong@computer.org. See <http://kais.mines.edu/~xwu/icdm/icdm-01.html>.

CALENDAR

JANUARY 2001

8-10 Jan: WORDS 2001, 6th Int'l Workshop on Object-Oriented Real-Time Dependable Systems, Rome. Contact Wolfgang Schroeder-Preikschat, wosch@cs.uni-magdeburg.de. See <http://www.dis.uniroma1.it/~words>.

8-12 Jan: SAINT 2001, Symp. on Applications & the Internet, San Diego, Calif. Contact Mike Liu, Ohio State Univ., m.liu@computer.org. See <http://www.computer.org/tab/TCI/SAINT/>.

12 Jan: Workshop on Internet Application Standards, (with SAINT 2001), San Diego, Calif. See <http://www.JimIsaak.com/saint>.

14-17 Jan: 2001 Mesa Computer Elements Workshop, Mesa, Ariz. Contact Wen-Hann Wang, wen-hann.wang@intel.com. See http://www.unf.edu/cocse/ieee/mesa2001_wkshps.html.

20-24 Jan: HPCA-7, 7th IEEE Symp. on High-Performance Computer Architecture, Monterrey, Mexico. Contact Ashwini Nanda, ashwini@watson.ibm.com. See <http://www.csl.cornell.edu/hpca7/>.

22-24 Jan: ESPW, European Systems Packaging Workshop, Barcelona, Spain. Contact John Barrett, barrettj@cit.ie. See http://www.ewh.ieee.org/soc/cpmt/tc14/e_wkshp.html.

31 Jan-2 Feb: ICOIN-15, 15th Int'l Conf. on Information Networking, Beppu City, Japan. Contact Yoshitaka Shibata, shibata@iwate-pu.ac.jp. See <http://www.takilab.k.dendai.ac.jp/conf/icoin15/>.

FEBRUARY 2001

19-21 Feb: CSEE&T 2001, Conf. on Software Eng. Education & Training, Charlotte, N.C. Contact Dawn Ramsey, dramsey@spsu.edu. See <http://www.spsu.edu/oce/cseet2001>.

MARCH 2001

4-7 Mar: BiTS, Burn-in & Test Socket Workshop, Mesa, Ariz. Contact Frederick Taber, taber@us.ibm.com. See <http://www.bitstestworkshop.org>.

11-14 Mar: ASYNC 2001, Int'l Symp. on Asynchronous Circuits & Systems, Salt Lake City, Utah. Contact Erik Brunvand, elb@cs.utah.edu. See <http://www.async.elen.utah.edu/~async01/>.

13-16 Mar: DATE 2001, Design, Automation, & Test in Europe Conf. & Exhibition, Munich, Germany. Contact Ahmed Jerraya, ahmed.jerraya@imag.fr. See <http://www.date-conference.com>.

13-17 Mar: VR 2001, Int'l Conf. on Virtual Reality, Yokohama, Japan. Contact info@vr2001.org. See <http://www.vr2001.org/>.

14-16 Mar: CSMR 2001, 5th European Conf. on Software Maintenance & Reeng., Lisbon, Portugal. Contact Fernando Brito e Abreu, fba@inesc.pt. See <http://www.esw.inesc.pt/csmr2001>.

26-28 Mar: ISADS 2001, 5th Int'l Symp. on Autonomous Decentralized Systems, Dallas. Contact Kinji Mori, mori@cs.titech.ac.jp. See <http://isads.utdallas.edu>.

26-28 Mar: ISQED, 2nd Int'l Symp. on Quality Electronic Design, San Jose, Calif. Contact Ali Iranmanesh, aliisqed.org. See <http://www.isqed.org/>.

26-28 Mar: ITSW, 8th Int'l Test Synthesis Workshop, Santa Barbara, Calif. Contact Elizabeth Rudnick, Univ. of Illinois, 1308 W. Main St., Urbana, IL 61801; liz@uiuc.edu. See <http://yellowstone.ece.ucsb.edu/~itsw/ITSW.html>.

27-29 Mar: Data Compression Conf.,

Snowbird, Utah. Contact James Storer, storer@cs.brandeis.edu. See <http://www.cs.brandeis.edu/~dcc/>.

APRIL 2001

1-2 Apr: RIDE 2001, 11th Int'l Workshop on Research Issues in Data Eng., Heidelberg, Germany. Contact Wolfgang Klas, klas@informatik.uni-ulm.de. See <http://www.Darmstadt.gmd.de/ride2001>.

2-4 Apr: ITCC, Int'l Conf. on Information Technology: Coding & Computing, Las Vegas, Nev. Contact Shahram Latifi, latifi@ee.unlv.edu.

2-6 Apr: ICDE 2001, 17th Int'l Conf. on Data Eng., Heidelberg, Germany. Contact Andreas Reuter, andreas.reuter@eml.villa-bosch.de. See <http://www.congress-online.com/ICDE2001>.

4-6 Apr: METRICS 2001, 7th IEEE Int'l Symp. on Software Metrics, London. Contact Deiter Rombach, rombach@iese.fhg.de. See <http://www.mmhq.co.uk/2001/metrics/index.shtml>.

9-10 Apr: Electronic Design Processes Workshop, Monterey, Calif. See <http://www.eda.org/edps/edp01/>.

16-19 Apr: ICDCS 21, 21st Int'l Conf. on Distributed Computing Systems, Phoenix, Ariz. Contact Forouzan Golshani, golshani@asu.edu. See <http://cactus.eas.asu.edu/ICDCS2001/>.

17-20 Apr: ECBS 2001, 8th Ann. IEEE Int'l Conf. & Workshop on the Eng. of Computer-Based Systems, Washington, D.C. Contact Jeffrey Voas, jmvoas@rst-corp.com. See <http://www.dcs.napier.ac.uk/ecbs/>.

17-20 Apr: 18th IEEE Symp. on Mass Storage Systems, San Diego, Calif. See <http://storageconference.org/2001/>.

18-20 Apr: DDECS 2001, 4th IEEE Int'l Workshop on Design & Diagnostics of Electronic Circuits & Systems, Győr, Hungary. Contact Jan Hlavicka, hlavicka@fel.cvut.cz. See <http://domino.inf.mit.bme.hu/ddecs01.nsf>.

Call and Calendar

19-20 Apr: Cool Chips IV, Tokyo. Contact Tadao Nakamura, nakamura@archi.is.tohoku.ac.jp. See <http://www.coolchips.org/>.

19-20 Apr: WVLSI 2001, IEEE CS Ann. Workshop on VLSI, Orlando, Fla. See <http://www.ece.cmu.edu/~dianam/wvlsi>.

22-26 Apr: Infocom 2001, IEEE 20th Ann. Joint Conf. of the IEEE Computer & Comm. Societies, Anchorage, Alaska. Contact Bhaskar Sengupta, bhaskar@crl.nj.nec.com. See <http://www.ieee-infocom.org/2001>.

23-27 Apr: IPDPS 2001, Int'l Parallel & Distributed Processing Symp., San Francisco. Contact Joseph JaJa, joseph@umiacs.umd.edu. See <http://www.ipdps.org>.

23-27 Apr: IPDPS 2001, Int'l Parallel & Distributed Processing Symp., San Francisco. See <http://www.ipdps.org/>.

25-27 Apr: CODES, 9th Int'l Symp. on Hardware/Software Codesign, Copenhagen, Denmark. Contact Jan Madsen, jan@it.dtu.dk. See <http://www.nd.edu/~codes>.

29 Apr: DBT 2001, IEEE Int'l Workshop on Defect-Based Testing, Marina del Rey, Calif. Contact Sankaran Menon, sankaran.menon@intel.org.

29 Apr.-3 May: VTS 2001, 19th IEEE VLSI Test Symp., Marina del Rey, Calif. Contact Joan Figueras, figueras@eel.upc.edu. See <http://chiusella.polito.it/~vts2001/>.

30 Apr.-3 May: FCCM 2001, IEEE Symp. on Field-Programmable Custom Computing Machines, Rohnert Park, Calif. Contact Kenneth Pocek, kenneth.pocek@intel.com. See <http://www.fccm.org/>.

MAY 2001

12-13 May: IWPC 2001, 9th Int'l Workshop on Program Comprehension, Toronto. Contact Ric Holt, holt@plg.uwaterloo.ca. See <http://serg.ing.unisannio.it/iwpc2001/>.

12-19 May: ICSE-2001, 23rd Int'l Conf. on Software Eng., Toronto. Contact Hausi Muller, CS, Univ. Victoria, V8W 3P6 Canada; hausu@csr.uvic.ca. See <http://www.csr.uvic.ca/icse2001>.

13-16 May: SPI 2001, 5th IEEE Workshop on Signal Propagation on Inter-Connects, Venice, Italy. Contact Flavio Canavero, canavero@polito.it. See <http://www.tet.uni-hannover.de/SPI/spi.htm>.

13-16 May: 2001 IEEE Symp. on Security & Privacy, Oakland, Calif. See <http://www.ieee-security.org/TC/sp2001.html>.



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