

**CALLS FOR IEEE CS PUBLICATIONS**

Over the past ten years, Internet service providers have built out their networks to cope with what they perceive as steadily increasing user demands. Because of that rapid development, network measurement has tended to have lower priority than immediate network operations, deployment, and upgrade concerns.

For a 2004 special issue on measuring performance, *IEEE Internet Computing* invites researchers and practitioners to submit original works on Internet measurement, especially studies that involve open source or freely available tools and data from wide area networks. Suitable topics include Internet topology, routing system behavior, understanding protocol behavior, monitoring/management of large-scale backbones, and quality of service monitoring.

Submissions are due 2 Feb. The complete call for papers is available at www.computer.org/internet/call4ppr.htm#v8n5.

OTHER CALLS

MEMOCODE 2004, 2nd ACM/IEEE Conf. on Formal Methods & Programming Models for Codesign, 23-25 June, San Diego, Calif. Panel and tutorial proposals due 12 Feb. www.irisa.fr/manifestations/2003/MEMOCODE/

NATW 2004, IEEE 13th North Atlantic Test Workshop, 13-14 May, Essex Junction, Vt. Papers due 7 Feb. www.ee.duke.edu/NATW/

ICALT 2004, 4th IEEE Int'l Conf. on Advanced Learning Technologies, 30 Aug.-1 Sept., Joensuu, Finland. Papers due 13 Feb. <http://ltf.ieee.org/icalt2004>

SRDS 2004, 23rd Symp. on Reliable Distributed Systems, 18-20 Oct., Florianópolis, Brazil. Submissions due 2 Apr. www.srds2004.ufsc.br/

ISSRE 2004, 15th Int'l Symp. on Software Reliability Eng., 2-5 Nov.,

Saint-Malo, France. Abstracts due 2 Apr., submissions due 18 Apr. www.issre.org/2004/

ATS 2004, 13th Asian Test Symp., 15-17 Nov., Kenting, Taiwan. Papers due 15 Apr. <http://ats04.ee.nthu.edu.tw/~ats04/>

CALENDAR**FEBRUARY 2004**

14-15 Feb: SLIP 2004, 6th Int'l Workshop on System-Level Interconnect Prediction, Paris. www.sliponline.org

14-18 Feb: HPCA-10, 10th Int'l Symp. on High-Performance Computer Architecture, Madrid, Spain. www.ac.uma.es/hpca10/

16-20 Feb: DATE 2004, Design, Automation & Test in Europe, Paris. www.date-conference.com/

19-20 Feb: ISVLSI 2004, Int'l Symp. on VLSI, Lafayette, LA. www.cacs.louisiana.edu/isvlsi/

23-25 Feb: Preclinical Development Forum, "Designing & Selecting Drug Candidates for Clinical Success," Cambridge, Mass. www.lifesciencesinfo.com/pdf

24-27 Feb: BAST 2004, 13th CRC-IEEE BAST Workshop, Santa Rosa, Calif. <http://crc.stanford.edu/BAST/BAST.html>

MARCH 2004

3-5 Mar: PRDC 2004, 10th Pacific Rim Int'l Symp. on Dependable Computing, Papeete, Tahiti. www.laas.fr/PRDC10

7-11 Mar: IEEE Infocom 2004, Hong Kong. www.ieee-infocom.org/2004/

10-12 Mar: ISPASS 2004, IEEE Int'l Symp. on Performance Analysis of

Systems & Software, Austin, Texas. www.ispass.org/ispass2004/

14-17 Mar: PerCom 2004, IEEE Int'l Conf. on Pervasive Computing & Comm., Kissimmee, Fla. www.percom.org

20-24 Mar: CGO 2004, Int'l Symp. on Code Generation & Optimization, San Jose, Calif. www.cgo.org

23-25 Mar: WMTE 2004, 2nd IEEE Int'l Workshop on Wireless & Mobile Technologies in Education, Taoyuan, Taiwan. <http://ltf.ieee.org/wmte2003/>

23-26 Mar: ICDCS 2004, 24th Int'l Conf. on Distributed Computing Systems, Tokyo. www.cis.ohio-state.edu/icdcs04/

25-26 Mar: HASE 2004, IEEE 8th Int'l Symp. on High-Assurance Systems Eng., Tampa, Fla. <http://hasrc.csee.wvu.edu/hase04/>

27-31 Mar: VR 2004, IEEE Virtual Reality 2004 Conf. (with Haptics 2004), Chicago. www.VR2004.org

28-29 Mar: RIDE WS-ECEG 2004, 14th Int'l Workshop on Research Issues on Data Eng., Boston. <http://europa.nvc.cs.vt.edu/ride04/>

Submission Instructions

The Call and Calendar section lists conferences, symposia, and workshops that the IEEE Computer Society sponsors or cooperates in presenting. Complete instructions for submitting conference or call listings are available at www.computer.org/conferences/submission.htm.

A more complete listing of upcoming computer-related conferences is available at www.computer.org/conferences/.

28-30 Mar: SSIAI 2004, IEEE South-west Symp. on Image Analysis & Interpretation, Lake Tahoe, Nev. www.ee.ttu.edu/Conferences/SSIAI2004

29-31 Mar: EEE 2004, IEEE Int'l Conf. on e-Technology, e-Commerce, & e-Service, Taiwan. <http://bikmrdc.lm.fju.edu.tw/eee04>

29-31 Mar: AINA 2004, 18th Int'l Conf. on Advanced Information Networking & Applications, Fukuoka,

Japan. www.takilab.k.dendai.ac.jp/conf/aina/2004/

30 Mar.-2 Apr: ICDE 2004, 20th Int'l Conf. on Data Eng., Boston. www.cse.uconn.edu/icde04/

APRIL 2004

4-7 Apr: ITSW 2004, 11th IEEE Int'l Test Synthesis Workshop, Santa Barbara, Calif. www.tttc-itsw.org

5-7 Apr: ITCC 2004, 5th Int'l Conf. on IT, Las Vegas. www.itcc.info

14-16 Apr: COOL CHIPS VII, Int'l Symp. on Low-Power & High-Speed Chips, Yokohama, Japan. www.coolchips.org/

14-16 Apr: ICECCS 2004, 9th IEEE Int'l Conf. on Eng. Complex Computer Systems, Florence, Italy. www.dsi.unifi.it/iceccs04/

Call for Articles for *Computer*

Computer seeks articles for a special issue on sensor networks, to appear in August 2004. Guest editors are David Culler from the University of California, Berkeley; Mani Srivastava from the University of California, Los Angeles; and Deborah Estrin from the University of California, Los Angeles.

Distributed systems of embedded smart sensors and actuators promise unprecedented capabilities for the instrumentation and monitoring of the physical world. Sensors can monitor many types of information: temperature, vibration, air pressure, chemicals, even voice and video data. Proponents envision a host of novel applications for sensor networks, from earthquake structural failure analysis to rainforest habitat research. The small and many characteristics of sensor networks have fostered a wave of research innovation in disciplines that have previously been focused on computing and networking at a much larger scale. This interest is driven by the vision that, like the Internet, large-scale distributed networks of sensors will pervade the world but at a physical, rather than virtual, level.

Computer's special issue will focus on all aspects of the field: hardware, architectures, wireless communication, networking, middleware, application development, applications, and experience. There are opportunities for short and long papers, providing a forum for reporting on both early and mature research. *Computer* also is soliciting descriptions of sensor network technology in existing products and services.

Topics of particular interest include sensor network architectures; sensor node hardware; networking; low-power protocols and services; distributed algorithms; data query, dissemination, routing, and fusion; novel applications and services; application development tools; and deployment experiences.

The deadline for papers is 2 February 2004. Submission guidelines are available at www.computer.org/computer/author.htm. Submit manuscripts at <http://cs-ieee.manuscriptcentral.com/>.

Send inquiries to the guest editors at culler@eecs.berkeley.edu, mbs@ee.ucla.edu, and destrin@cs.ucla.edu.

Computer seeks articles for a special issue on Internet data centers, to appear in November 2004. Guest editors are Krishna Kant from Intel and Prasant Mohapatra from the University of California, Davis.

Internet data centers form the backbone of most Internet-based services, including e-commerce, IP-based telecom services, hosting services, and the like. As the reach of the Internet widens and more business-critical services are offered, the demands on IDCs grow along multiple dimensions, including responsiveness, service differentiation, security, and availability. Many other forces are likely to affect how the data centers of the future are designed, provisioned, and operated.

Computer's special issue will focus on research issues in identifying and implementing new strategies for optimizing IDCs: application services, protocol enhancements, performance evaluations, provisions for adequate security, protection and isolation, and ensuring an adequate quality of service. *Computer* is soliciting a small number of high-quality papers from academia and industry that highlight various problems and solutions and provide a vision for future work in this area.

Topics of particular interest include system architecture and converged data centers; symmetric multiprocessors versus clustered systems; scalability, reliability, and fault tolerance; performance evaluation and workload characterization; operations, control, and autonomic management; power management issues; exploitation of new hardware/software technologies; and issues of security, protection, and isolation.

The deadline for papers is 1 April 2004. Submission guidelines are available at www.computer.org/computer/author.htm. Submit manuscripts at <http://cs-ieee.manuscriptcentral.com/>.

Send inquiries to the guest editors at krishna.kant@intel.com and prasant@cs.ucdavis.edu.

Call and Calendar

18-21 Apr: DDECS 2004, 7th IEEE Workshop on Design & Diagnostics of Electronics Circuits & Systems Workshop, Tatranská Lomnica, Slovakia. www.ui.savba.sk/DDECS2004

19-22 Apr: CCGRID 2004, 4th IEEE/ACM Int'l Symp. on Cluster Computing & the Grid, Chicago. www.fp.mcs.anl.gov/ccgrid2004

19-22 Apr: CLAG 2004, 1st Int'l Workshop on Collaborative Learning Applications of Grid Technology (with CCGRID), Chicago. <http://research.ac.upc.es/clag/clag2004cfp.htm>

19-23 Apr: ASYNC 2004, 10th Int'l Symp. on Asynchronous Circuits & Systems, Hersonissos, Crete. www.async04.gr

25-27 Apr: EDP 2004, 10th IEEE/DATC Electronics Design Processes Workshop, Monterey, Calif. www.eda.org/edps/edp04/

26-30 Apr: IPDPS 2004, 18th Int'l Parallel & Distributed Processing Symp., Santa Fe, N.M. www.ipdps.org

MAY 2004

9-12 May: Security and Privacy, Oakland, Calif. <http://www.ieee-security.org/TC/SP-Index.html>

10-13 May: ISEE 2004, Int'l Symp. on Electronics & the Environment, Scottsdale, Ariz. www.iseesummit.org

13-14 May: NATW 2004, IEEE 13th North Atlantic Test Workshop, Essex Junction, Vt. www.ee.duke.edu/NATW/

16-19 May: PADS 2004, 18th Workshop on Parallel & Distributed Simulation, Kufstein, Austria. www.pads-workshop.org/pads2004

17-18 May: ICAC 2004, Int'l Conf. on Autonomic Computing (with WWW 2004), New York. www.autonomic-conference.org

19-22 May: ISMVL 2004, 34th Int'l Symp. on Multiple-Valued Logic, Toronto. www.eecg.utoronto.ca/~ismvl2004

23-28 May: ICSE 2004, 26th Int'l Conf. on Software Eng., Edinburgh, UK. <http://conferences.iee.org/icse2004/>

24-27 May: ECBS 2004, 11th IEEE Int'l Conf. & Workshop on the Eng. of Computer-Based Systems, Brno, Czech Republic. www.fit.vutbr.cz/events/ECBS2004/

JUNE 2004

2-4 June: PBG 2004, Symp. on Point-Based Graphics, Zurich, Switzerland. www.graphics.ethz.ch/PBG/

7 June: CLADE 2004, Workshop on Challenges of Large Applications in Distributed Environments, Honolulu. www.caip.rutgers.edu/clade2004/

7-9 June: POLICY 2004, IEEE 5th Int'l Workshop on Policies for Distributed Systems & Networks, Yorktown Heights, N.Y. www.research.ibm.com/policy2004/index.html

23-25 June: IMSTW 2004, 10th IEEE Int'l Mixed Signals Test Workshop, Portland, Ore. www.ece.pdx.edu/imstw04/

23-25 June: MEMOCODE 2004, 2nd ACM/IEEE Conf. on Formal Methods & Programming Models for Codesign, San Diego, Calif. www.irisa.fr/manifestations/2003/MEMOCODE/

24-25 June: CBMS 2004, 17th IEEE Symp. on Computer-Based Medical Systems, Bethesda, Md. www.cvia.ttu.edu/Conferences/cbms2004/cbms2004.html

24-26 June: IWPC 2004, 12th Int'l Workshop on Program Comprehension, Bari, Italy. <http://iwpc2004.di.uniba.it>

27-30 June: ICME 2004, Int'l Conf. on Multimedia & Expo, Taipei. www.icme2004.org/

28 June-1 July: DSN 2004, Int'l Conf. on Dependable Systems & Networks, Florence, Italy. www.dsn.org

JULY 2004

6-9 July: ICWS 2004, IEEE Int'l Conf. on Web Services, San Diego, Calif. <http://conferences.computer.org/icws/>

6-9 July: CEC 2004, IEEE Conf. on E-Commerce, San Diego, Calif. <http://tab.computer.org/tfec/cec04>

7-9 July: ICPADS 2004, 10th Int'l Conf. on Parallel & Distributed Systems, Newport Beach, Calif. www.cacs.louisiana.edu/icpads2004/

AUGUST 2004

9-10 Aug: MTDT 2004, IEEE Int'l Workshop on Memory Technology, Design, and Testing, San Jose, Calif. Contact Rochit Rajsuman, f.rajsuman@advantest-ard.com.

19-20 Aug: ISESE 2004, Int'l Symp. on Experimental Software Eng., Redondo Beach, Calif. www.isese.org

30 Aug.-1 Sept: ICALT 2004, 4th IEEE Int'l Conf. on Advanced Learning Technologies, Joensuu, Finland. <http://lutf.ieee.org/icalt2004>

SEPTEMBER 2004

6-10 Sept: RE 2004, 12th IEEE Int'l Requirements Eng. Conf., Kyoto, Japan. www.re04.org

20-24 Sept: WI-IAT 2004, IEEE/WIC/ACM Int'l Joint Conf. on Web Intelligence, Beijing. <http://wi-consortium.org>

20-25 Sept: ASE 2004, 19th IEEE Int'l Conf. on Automated Software Eng., Linz, Austria. www.ase-conference.org