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


CALENDAR

FEBRUARY 2004


MARCH 2004


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/.
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 vast 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, and deployment experiences. There are opportunities for short and long papers, providing a forum for reporting on both early and mature research. Computer also 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.


Send inquiries to the guest editors at culler@eecs.berkeley.edu, mbst@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.


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


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

**MAY 2004**


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


**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/


**JULY 2004**


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

**AUGUST 2004**


**SEPTEMBER 2004**

