CALLS FOR IEEE CS PUBLICATIONS

IEEE Internet Computing seeks articles for a November/December 2003 special issue on identity management. Topics include authentication techniques; federated identity management; access management; e-provisioning; integrating identity with Web services; single sign-on; digital certificates; public-key infrastructure; password reset and synchronization; directories and metadirectories; and standards.

Submit articles by 1 Apr. Guest editors are Duncan Buell, University of South Carolina, and Ravi Sandhu, George Mason University. For author guidelines, see www.computer.org/internet/call4ppr.htm. For more information, contact the magazine assistant at internet@computer.org.

IEEE Software seeks original articles for a November/December 2003 special issue on the state of the practice of software engineering. The issue will present a baseline view of practice on which practitioners and software engineering researchers can build. Contributed papers as well as invited articles will comprise the issue.

Submissions must present information that accurately characterizes software engineering as it is currently practiced. Surveys, for example, are appropriate; case studies, unless their findings can be generalized to a broad spectrum of practice, are not. Studies of particular domains of practice are welcome.


Guest editors Diomidis Spinellis, from Athens University of Economics and Business, and Clemens Szyperski, from Microsoft Research, seek papers for a special issue of IEEE Software on developing with open source software. The issue is scheduled for January/February 2004, and submissions are due by 1 Aug.

The open source software movement has generated an extensive repository of potentially reusable software elements. The free availability of source code might address two reservations often raised with COTS components: unknown implementation quality and long-term vendor support.

The editors seek submissions that address one or more of the following topics: taxonomies and repositories of available OSS; searching and evaluation strategies; development strategies, models, and methodologies based on reusing OSS; the maintenance and integration of evolution paths; and cooperation with the OSS community.

In addition to traditional manuscripts, the guest editors will consider experience reports of up to 1,300 words.

Interested authors can contact Diomidis Spinellis at dds@aueb.gr for more information about the issue’s focus. All manuscripts must satisfy IEEE Software’s author guidelines available at www.computer.org/software/author.htm and must be submitted online at http://cs-ieee.manuscriptcentral.com.

IEEE Transactions on Information Technology in Biomedicine will feature a special issue on mHealth: emerging mobile technologies for health applications. The field of mHealth is concerned with the development, dissemination, and use of mobile information and telecommunication technologies in healthcare.

Potential topics include Web-based mobile medical systems; 2.5G/3G mobile systems and ad hoc networks; sensors and signal processing for mHealth applications; space telemedicine and satellite applications; and standardization, regulation, and legal issues.

Guest editors are Robert S.H. Istepanian from Brunel University, Emil Jovanov from the University of Alabama in Huntsville, and Yuanting Zhang from the Chinese University of Hong Kong.

The full call for papers, including manuscript guidelines, is available at www.vtt.fi/tte/samba/projects/sirb/. The submission deadline is 30 Aug.

IEEE Transactions on Information Technology in Biomedicine, now cosponsored by the IEEE Computer Society, features topics such as biomedical engineering, virtual reality applications for surgery, ethical issues in biomedical applications, and visualization and biomedical imaging.

OTHER CALLS


MDM 2003, 1st Int'l Conf. on Mobile Data Management, 19-22 Nov. 2003, Hong Kong. Papers due 1 June.


Submit articles by February 2004, and submissions are welcome.

CALL AND CALENDAR

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OTHER CALLS


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/.

April 2003
Call and Calendar

June, panel proposals due 30 June.  
www.cs.uvm.edu/~xwu/icdm-03.html


Submissions due 2 July.  
www.cse.uconn.edu/icde04/

AIPR 2003, 32nd Applied Imagery Pattern Recognition Workshop:

Imagery & Data Fusion, 15-17 Oct.,  
Washington, D.C. Abstract submissions due 15 July.  
www.aiprworkshop.org

Call for Articles for Computer

Mobile computing devices are appearing in many forms and with increasingly diverse functions: personal digital assistants such as PalmOS organizers and PocketPCs, handheld games, mobile phones, digital audio players, and smart cameras. These are being augmented with ever-increasing capabilities that cross function boundaries.

The September 2003 issue of Computer will be devoted to handheld computing. We are soliciting papers that provide a perspective on all aspects of the field: infrastructure technologies, devices, middleware, and applications. There are opportunities for short and long papers, providing a forum for reporting on both early and mature research. We also wish to solicit descriptions of the experiences with handheld technology in existing products and services. Topics of interest include new services enabled by mobile technologies, middleware support for mobile devices, novel functions for handheld devices, user interfaces and interaction techniques for small devices, wireless-phone computing, and handheld applications, particularly in nontraditional settings.

Send inquiries to Guest editors Brad Myers, Carnegie Mellon University (brad.myers@cmu.edu), and Michael Beigl, University of Karlsruhe (michael@teco.edu). Submit pdf or Microsoft Word documents by 15 May to computer-ma@computer.org.

Computer seeks articles for a February 2004 special issue on ad hoc networking. The guest editors are Jie Wu from Florida Atlantic University and Ivan Stojmenovic from the University of Ottawa.

Wireless network and mobile computing research has traditionally concentrated on single-hop networks, such as cellular and satellite systems, wherein network nodes communicate directly to a fixed infrastructure. Ad hoc networking covers multihop scenarios—wherein network nodes communicate via other network nodes—such as conference, hospital, battlefield, rescue, and monitoring situations. Ad hoc network systems also include packet radio networks, sensor networks, personal communication systems, rooftop networks, and wireless local area networks. Even multihop cellular networks may be viable when many cellular phones are concentrated in a small area such as a sports stadium.

This special issue will cover data-link, network, and transport layers of ad hoc networks as well as security, simulation, and power management issues in sensor, local area, personal, and mobile ad hoc networks. Topics also include medium-access control based on IEEE 801.11 and Bluetooth; position discovery and management in ad hoc networks; and clustering, routing, broadcasting, multicasting, quality of service, topology construction, and maintenance in ad hoc networks.

Send inquiries to jie@cse.fau.edu and ivan@site.uottawa.ca. Send pdf files by 31 May to computer-ma@computer.org.

Computer seeks articles for a December 2003 special issue on power-aware and temperature-aware computing. The guest editors are Mircea R. Stan and Kevin Skadron from the University of Virginia.

An integrated and coordinated set of design techniques is required to successfully manage growing power and thermal demands while still meeting performance, reliability, and cost targets.

Despite the continuous scaling of processes and supply voltages and the increased awareness of low-power issues in the computer design and design automation communities, power consumption by state-of-the-art integrated circuits has continually increased in recent years. This apparent paradox results from the increased density enabled by process scaling and a multilayer interconnect, coupled with increases in area, especially in clock frequency, and driven by an insatiable market for high-performance systems.

Temperature is also on the verge of becoming a first-class design constraint along with the more traditional cost, performance, and power constraints. The increasing importance of thermal effects stems from an exponential increase in on-chip power densities, with today’s processors having power densities greater than a hot plate and within an order of magnitude of a rocket nozzle.

Research, characterization, and survey papers are requested for this special issue. Topics of interest include circuit, architecture, and system techniques for regulating static and dynamic power; improved models for power, current delivery, and operating temperature; compiler-hardware and OS-hardware cooperation; and methods for optimizing energy efficiency subject to real-time or quality-of-service requirements.

Send inquiries to mircea@virginia.edu and skadron@virginia.edu. Submit pdf documents by 1 June to computer-ma@computer.org and specify the December 2003 special issue on power-aware and temperature-aware computing.

See http://computer.org/computer/author.htm for author guidelines.
**CALENDAR**

**MAY 2003**


11-14 May: SPI 2003, IEEE 7th Workshop on Signal Propagation on Interconnects, Seina, Italy. www.spi.uni-hannover.de/


19-22 May: ICDCS 2003, 23rd Int'l Conf. on Distributed Computing Systems, Providence, R.I. www.cse.msu.edu/icdcs


**JUNE 2003**


1-4 June: Southwest Test Workshop, Long Beach, Calif. www.swtest.org


9-11 June: ISCA 2003, 30th Int'l Symp. on Computer Architecture, (with FCRC), San Diego, Calif. www.cs.nyu.edu/isca03/


**Computer Society Online**

For more information on calls for papers, conferences, workshops, and symposia, check our full listing online at www.computer.org/conference/calendar.htm. For detailed access information, send query to online.access@computer.org.