CALLS FOR IEEE CS PUBLICATIONS

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 Yuan-ting 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/titbl/. The submission deadline is 30 August.

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.


Massive amounts of 3D data are available from multiple sources. However, because of problems related to fusing multisource data, creating real-world models with this data is not straight-forward. The November/December 2003 special issue of IEEE Computer Graphics and Applications will feature 3D reconstruction and visualization of large-scale environments. Potential topics for articles include issues of scale, problems of dynamic data, updating models with newly acquired data, and problems of incomplete models.

Submissions are due to cga-ma@computer.org by 1 March. Direct prior correspondence to Guest Editors William Ribarsky, ribarsky@cc.gatech.edu, and Holly Rushmeier, hertjwr@us.ibm.com. See the full call at http://computer.org/cga/CFPNov03.htm.

IEEE Pervasive Computing seeks papers focusing on hardware technology, software infrastructure, real-world sensing and interaction, human-computer interaction, or systems considerations. Papers should range from 4,000 to 6,000 words (tables and figures count as 250 words each). For more information, see http://computer.org/pervasive/author.htm or send email to pervasive@computer.org.

IEEE Transactions on Mobile Computing seeks original manuscripts. This journal publishes research related to mobility of users, systems, data, and computing as well as issues in information organization and access, services, management, and applications.

Topics of interest include architectures, support services, algorithm/protocol design and analysis, mobile environments, mobile communication systems, applications, and emerging technologies. More information can be found at http://computer.org/tmc.

OTHER CALLS


CALENDAR

MARCH 2003

2-5 Mar: BITS 2003, Burn-In and Test Sockets Workshop, Mesa, Ariz. www.bitsworkshop.org


5-8 Mar: ICDE 2003, 19th Int’l Conf. on Data Eng., Bangalore, India. www.aztecsoft.com/icde2003/


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 http://computer.org/conferences/submission.htm.

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

February 2003
Call and Calendar


APRIL 2003


16-18 Apr: Cool Chips VI, Yokohama, Japan. www.coolchips.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 like GameBoys, 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@cs.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 Stoimenovic 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 multi-hop 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 multi-hop 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.

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


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/icdc


JUNE 2003


24-26 June: ASAP 2003, IEEE 14th Int'l Conf. on Application-Specific Systems, Architectures, & Processors, Leiden, the Netherlands. www.ece.rice.edu/asap2003


Computer Society Online

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