CALLS FOR ARTICLES FOR COMPUTER

Computer seeks submissions for an August 2012 special issue on massively threaded computer systems.

Massively threaded architectures, such as the Cray XMT, have long been known as efficient solutions for high-throughput computing on large datasets. With the broad availability of GPUs and their transformation to more general compute resources, this type of architecture has moved beyond its previous niche and is becoming mainstream.

Computer seeks to highlight the state of the art and future directions for massively threaded systems, defined as systems that support hundreds or thousands of hardware threads per device.

Topics of interest for the issue include applications and algorithms that effectively exploit massively threaded systems; programming models, programming languages, and runtime or operating systems designed to support massively threaded execution; and chip or system architectures for massive threading.

For author guidelines and information on how to submit a manuscript electronically, visit www.computer.org/portal/web/peerreviewmagazines/computer.

Articles are due by 15 February 2012. Visit www.computer.org/portal/web/computingnow/cocfp8 to view the complete call for papers.

SUBMISSION INSTRUCTIONS

The Call and Calendar section lists conferences, symposia, and workshops that the IEEE Computer Society sponsors or cooperates in presenting.

Visit www.computer.org/conferences for instructions on how to submit conference or call listings as well as a more complete listing of upcoming computing-related conferences.

Computer seeks submissions for a September 2012 special issue on modeling and simulation of smart and green computing systems.

Sustainable and efficient utilization of available energy resources is perhaps the fundamental challenge of the current century. Academic and industrial communities have invested significant efforts in developing new solutions to address energy-efficiency challenges in several areas, including IT and telecommunications, green buildings and cities, and the smart grid.

Modeling and simulation methodologies are necessary for the comprehensive performance evaluation that precedes costly prototyping activities for such complex, large-scale systems. This special issue aims to disseminate the latest advances in modeling and simulation of smart and green computing systems, which are critical from the perspective of sustainable economic growth and environmental conservation.

Topics of interest include modeling and simulations of energy-efficient computing systems, green communications systems, and smart grid applications.

For author guidelines and information on how to submit a manuscript electronically, visit www.computer.org/portal/web/peerreviewmagazines/computer.

Articles are due by 1 March 2012. Visit www.computer.org/portal/web/computingnow/cocfp9 to view the complete call for papers.

Computer seeks submissions for a November 2012 special issue on the move toward electronic health records.

The US Patient Protection and Affordable Care Act of 2010 embraces the notion that electronic health information is the bedrock of modern healthcare.

A multitude of projects are underway to support the transition to electronic health records (EHRs), which enable information exchange among various healthcare-related parties while maintaining patient privacy and security protection.

This aggressive endeavor and its timeline of milestones poses new and interesting problems pertaining to the sharing of private information among government agencies, physicians, institutions, and individuals. While supported by incentive programs, the goal of having 80 percent of physicians using EHRs by 2014 seems unattainable given that currently less than 20 percent use this technology. Fine-tuning certification criteria and establishing best practices appear to be keys to this initiative’s overall success.

Appropriate topics of interest for this special issue include but are not limited to standards for formatting and using EHRs, open source solutions for EHR creation and maintenance, current and future status of certification criteria for EHR systems, and ensuring security of EHRs across multiple sites.
CALL AND CALENDAR

Articles are due by 15 May 2012. Visit www.computer.org/portal/web/computingnow/cofp11 to view the complete call for papers.

CALLS FOR ARTICLES FOR IEEE CS PUBLICATIONS

IEEE Internet Computing plans a November/December 2012 special issue on future Internet protocols. The Internet is based on a set of layered protocols, their servers, and architectures that support them. The Internet has now evolved far beyond the original TCP/IP protocol and architecture. Application protocols have similarly evolved, as evidenced by HTML 5.0. Future applications and basic usage will require significant changes; however, a clean-slate approach is not likely to be adopted, making a feasible migration path a must for any new proposal.

Topics of interest include high-latency-tolerant TCP (also for mobile environments); TCP replacement protocols, requirements for app management, smart routers, and policies and protocols for cloud computing and enterprise management.

Articles are due by 1 March 2012. Visit www.computer.org/portal/web/computingnow/icfp6 to view the complete call for papers.

IEEE Security & Privacy plans a November/December 2012 special issue titled “Lost Treasures of Computer Security & Privacy.” This special issue of S&P will address key lessons from the past 50 years—not merely to recapitulate them, but to learn from them. The editors solicit articles from individuals and organizations about lessons learned from successful and unsuccessful attempts to define standards for measuring security. Also welcome are summaries of solid computer security science lost because of building with unpopular metric definitions as well as business failures.

Articles are due by 1 March 2012. Visit www.computer.org/portal/web/computingnow/spcfp6 to view the complete call for papers.

CALENDAR

FEBRUARY 2012

1-3 Feb: ICOIN 2012, Int’l Conf. on Information Networking, Bangkok; www.icoin.org

2-3 Feb: dMEMS 2012, 2nd Workshop on Design, Control and Software Implementation for Distributed MEMS, Besançon, France; http://dmems.univ-fcomte.fr


MARCH 2012

19-23 Mar: PERCOM 2012, 10th Int’l Conf. on Pervasive Computing and Communications, Lugano, Switzerland; www.percom.org


APRIL 2012

1-5 Apr: ICDE 2012, 28th Int’l Conf. on Data Engineering, Washington, DC; www.icde12.org/Site


MAY 2012


JUNE 2012

2-9 Jun: ICSE 2012, 34th Int’l Conf. on Software Eng., Zurich, Switzerland; www.ifi.uzh.ch/arvo/req/events/ICSE2012

5-8 Jun: EuroVis 2012, 14th IEEE Eurographics Symp. on Visualization, Vienna, Austria; www.cg.tuwien.ac.at/eurovis2012
