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.

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 under way that 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.
Articles are due by **15 May 2012**. Visit www.computer.org/portal/web/computingnow/cocfp11 to view the complete call for papers.

**CALLS FOR ARTICLES FOR IEEE CS PUBLICATIONS**

*IEEE Computer Graphics and Applications* plans a September/October 2012 special issue titled “Biomedical Applications: From Data Capture to Modeling.”

Today’s broad array of image and data-capture tools is dramatically changing the understanding of biological processes. Imaging modalities such as computed tomography and magnetic resonance imaging let users visualize and track complex biological processes. Motion capture can help researchers to understand how animals move.

Just as calculus helped physicists understand and model the mechanical world, computers can help model complex biological systems for researchers to use in reasoning and making predictions about them. Computer graphics techniques and algorithms—from modeling to animation—make this possible.

This special issue is dedicated to multidisciplinary efforts in building, verifying, and understanding biological models. The guest editors seek contributions that address biology problems ranging from biochemistry through computational anatomy.

Articles are due by **14 January 2012**. Visit www.computer.org/portal/web/computingnow/cgacfp5 to view the complete call for papers.

*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/iccfp6 to view the complete call for papers.


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**

**JANUARY 2012**

4-7 Jan: HICSS 2012, 36th Hawai’i Int’l Conf. on System Sciences, Manoa, Hawai’i; www.hicss.hawaii.edu


**FEBRUARY 2012**

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

Submissions Due: 30 December 2011
Online Publication: From January 2012

IT Professional magazine seeks IT training materials for practitioners for posting on Computing Now (http://computingnow.computer.org). Specifically, we are looking for 30- to 45-minute multimedia training sessions that present procedures and strategies that address common problems faced by IT professionals around the world. Topics of interest include (but are not limited to) the following:

- Cloud computing
- Mobile computing
- IT in emerging markets
- Cybersecurity
- Application development and deployment

Submissions must be practical in nature; overly complex, purely research-oriented, or theoretical treatments are not appropriate. In addition, they should include one or more of the following elements: video, audio, or PowerPoint slides.

Submissions deemed within scope of this project will be reviewed by members of the IT Professional editorial board and may be edited for clarity, organization, and length.

Questions and Submissions
For more information, contact Associate Editor in Chief San Murugesan at san1@internode.net. Upload submissions to ftp://ieeecs:benefit@ftp.computer.org/mags/incoming/ITPro/Training_materials along with a two-page description of the session (including scope, coverage, target audience, intended benefits, and brief bio of author(s)) and send an email (with “IT Pro training” in the subject line) that you’ve uploaded files for review.