CALLS FOR ARTICLES FOR COMPUTER

*Computer* seeks submissions for an April 2012 special issue on interaction beyond the keyboard.

Interaction with computers has become an integral part of daily life for most people. As computing technologies proliferate, simple user interfaces and ease of use become key success factors for a wide range of products.

Although the keyboard and mouse are still the dominant user interfaces in home and office environments, with the massive increase in mobile device usage and the many new interaction technologies available, the way we interact with computers is becoming richer and more diverse. Touch-enabled surfaces, natural gestures, implicit interaction, and tangible user interfaces mark some of these trends.

Authors are encouraged to submit original research that describes groundbreaking new devices, methods, and approaches to human-computer interaction in a world of ubiquitous computer use. Suitable topics include interactive surfaces and tabletop computing, tangible interaction and graspable user interfaces, and user interfaces based on physiological sensors and actuators.

Direct inquiries to guest editor Albrecht Schmidt of the University of Stuttgart at albrecht@computer.org.

Paper submissions are due 1 November. For author guidelines and information on the electronic submission process, visit www.computer.org/portal/web/peerreviewmagazines/computer.

*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 resources 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.

CALLS FOR ARTICLES FOR IEEE CS PUBLICATIONS

*Computing in Science & Engineering* plans a May/June 2012 special issue on scientific computing with graphics processing units.

GPUs aren’t just for graphics anymore. These high-performance many-core processors are used to accelerate a wide range of science and engineering applications, in many cases offering dramatically increased performance compared to CPUs. Computer architects also use them to build the world’s largest supercomputers. However, the use of GPUs in scientific computing comes with added risks. The effort needed to port applications can be substantial, and not every application benefits equally well from GPU acceleration.

The guest editors seek contributions covering all aspects of using GPUs to solve challenging computational science problems. Of special interest are articles presenting the results of porting efforts of large-scale scientific applications on large-scale, GPU-based, high-performance computers.

**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 computer-related conferences.
## EVENTS IN 2011

**October**
- 4-7: LCN 2011, 36th IEEE Conf. on Local Computer Networks, Bonn, Germany; [www.ieeelen.org/index.html](http://www.ieeelen.org/index.html)
- 4-7: SRDS 2011
- 10-14: PACT 2011
- 22-25: FOCS 2011

**November**
- 6-10: ASE 2011
- 6-13: ICCV 2011
- 7-9: ICTAI 2011
- 12-18: SC 2011
- 21-23: NCCA 2011

**December**
- 5-8: E-Science 2011
- 7-9: ICPADS 2011
- 11-14: ICDM 2011
- 18-21: HiPC 2011

Articles are due by 14 September. Visit [www.computer.org/portal/web/computingnow/cscfp3](http://www.computer.org/portal/web/computingnow/cscfp3) to view the complete call for papers.

## CALENDAR

**OCTOBER 2011**
- 4-7 Oct: LCN 2011, 36th IEEE Conf. on Local Computer Networks, Bonn, Germany; [www.ieeelen.org/index.html](http://www.ieeelen.org/index.html)

**November 2011**
- 6-10 Nov: ASE 2011, 26th IEEE/ACM Int’l Conf. on Automated Software Eng., Lawrence, Kansas; [www.continuinged.ku.edu/programs/ase](http://www.continuinged.ku.edu/programs/ase)

**DECEMBER 2011**
- 7-9 Dec: ICPADS 2011, IEEE Int’l Conf. on Parallel and Distributed Systems, Tainan, Taiwan; [http://conf.ncku.edu.tw/icpads](http://conf.ncku.edu.tw/icpads)
- 18-21 Dec: HiPC 2011, IEEE Int’l Conf. on High-Performance Computing, Bangalore, India; [www.hipc.org](http://www.hipc.org)

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Learn about computing history and the people who shaped it.

[http://computingnow.computer.org/ct](http://computingnow.computer.org/ct)

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**HIPC 2011**

The 18th IEEE International Conference on High-Performance Computing serves as a forum where top experts from around the world can present cutting-edge research results. Conference events highlight high-performance computing activities in Asia. HiPC 2011 focuses on all aspects of high-performance computing systems and their scientific, engineering, and commercial applications.

Conference organizers have solicited contributions on topics that include cluster, cloud, and grid cloud computing; peer-to-peer algorithms and networks; scalable servers and systems; and parallel languages and programming environments.

HiPC 2011 takes place 18-21 December in Bangalore, India. Visit [www.hipc.org](http://www.hipc.org) for complete conference details.