Call for Articles for Computer

Computer seeks submissions of original research for a June 2009 special issue dedicated to software engineering ethics in a digital world.

Digital communities are becoming more common as the Internet becomes pervasive in day-to-day life. The rise in digital communities also raises a number of ethical issues related to privacy, monitoring, data protection, and more. An ascendant information society providing a range of e-services, such as e-health and e-government, means that these challenges will become increasingly critical in both the design of software systems and the digital communities they serve.

The guest editors are soliciting papers on topics ranging from field studies of software systems operating in ethically challenging contexts to methodologies, processes, and codes of conduct. Computer encourages articles that offer a multidisciplinary point of view on the challenges to existing software engineering practices that stem from current issues in social science, psychology, and criminology.

Topics of interest include ethical challenges in engineering next-generation software systems, practice and policy implications of ethics, and software engineering in societal contexts. Further topics of interest include ethical aspects of digital communities, the involvement of and accountability to stakeholders’ ethical standpoints during software design, ethics regulation in software engineering, and codes of ethics and conduct. More details on the special issue are available at www.comp.lancs.ac.uk/isis/ieee.htm.

Direct inquiries to guest editors Awais Rashid, John Weckert, and Richard Lucas at se-ethics-ieee@comp.lancs.ac.uk. Paper submissions are due by 1 January 2009. Complete submission instructions are available at www.computer.org/portal/pages/computer/content/author.html.

Computer seeks submissions for an October 2009 special issue on models@run.time.

Researchers use the term model-driven engineering to describe software development approaches that manage complexity through the use of software models that are systematically transformed into implementations. Research has generally focused on MDE as a design technique. However, there is a growing community interested in the role of models at runtime, addressing the complexities associated with managing and evolving complex software systems while they are executing.

A panel of expert guest editors invites authors to submit papers on model-based approaches that address topics including

- using models to support runtime monitoring and validation of behavior and also to support self-* properties in autonomic software systems;

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CALLS FOR ARTICLES FOR IEEE CS PUBLICATIONS

IEEE MultiMedia seeks articles for an October-December 2009 special issue on multimedia metadata and semantic management. Multimedia metadata description standards—for example, MPEG-7/21—proposed in recent years have added a new aspect to the creation of multimedia content and related semantic management.

The guest editors invite papers that assess current status and technologies, as well as outline major challenges to and future perspectives on multimedia production, management, and exchange. Suitable topics include multimedia retrieval, personalizing multimedia content, cross-media clustering, and mobile applications.

Articles are due by 15 January 2009. Visit www.computer.org/multimedia to view the complete call for papers and submission instructions.

IEEE Software seeks articles for a September/October 2009 special issue on end-user software engineering. The guest editors invite papers on topics that include lightweight approaches to end-user programming that improve software quality, studies of end-user programming populations and their quality concerns, and techniques for helping end users translate their informal requirements into code that adequately addresses their professional goals.

Articles are due by 2 February 2009. Visit www.computer.org/software/cfp5.htm to view the complete call for papers and submission instructions.

IEEE Intelligent Systems seeks articles for a September/October 2009 special issue on transforming e-government and e-participation. E-government and e-participation research aims to refocus government on citizens and businesses—and to provide the models, technologies, and tools for more effective and efficient public-administration systems as well as more participatory decision processes.

The guest editors invite papers that address the possible benefits and limitations of tools and applications like the semantic Web, service-oriented architectures, Web 2.0, and social computing as they apply to e-government and e-participation. Suitable topics include rule-based, personalized, and modular one-stop portals; cross-agency service composition and monitoring; and user-generated content and social tagging.
• using models at runtime in service-oriented architectures;
• case studies and experience reports on the use of models at runtime;
• leveraging design models at runtime, including work on transforming design abstractions to runtime abstractions;
• runtime abstractions that enable and support the dynamic management and evolution of software, helping to establish and maintain causal links between runtime models and the running software;
• adaptations based on changes in user intent, including work on reflecting human intent in a runtime model, and work on detecting changes in human intent; and
• implications of models@run.time for existing and emerging software paradigms including service-oriented architectures.

Direct inquiries to guest editors Gordon Blair, of Lancaster University, at gordon@comp.lancs.ac.uk; Robert France, of Colorado State University, at france@cs.colostate.edu; and Nelly Bencomo, of Lancaster University, at nelly@acm.org.

Paper submissions are due by 1 February 2009. Complete submission instructions are available at www.computer.org/portal/pages/computer/content/author.html.

Computer seeks submissions for a September 2009 special issue covering the latest advances in next-generation tools and environments for multicore and many-core architectures.

In the past, computing speeds doubled every 18 to 24 months by increasing the clock speed, thus giving software a “free ride” to better performance whenever the clock speed increased. This free ride is now over, and such automatic performance improvement is no longer possible.

With the advent of multicore chips—from the traditional AMD and Intel multicore to the more exotic hybrid multicore of IBM Cell and the many-core of AMD/ATI and nVidia GPGPUs—parallel computing across multiple cores on a single chip has become a necessity.

The expert guest editors solicit papers on topics that include programming models and environments for multicore and many-core architectures, systems scheduling and management between different subsystems, compile-time and runtime optimizations, and tools to enhance programming productivity.

Direct inquiries to guest editors Wu-chun Feng at feng@cs.vt.edu and Pavan Balaji at balaji@mcs.anl.gov. Paper submissions are due by 15 March 2009. Complete submission instructions are available at www.computer.org/portal/pages/computer/content/author.html.

Articles are due by 5 March 2009. Visit www.computer.org/intelligent to view the complete call for papers and submission instructions.

CALLS FOR PAPERS


CALENDAR

JANUARY 2009

8-10 Jan: ICWIS 2009, Int’l Conf. on Web Intelligence Systems, Chennai, India; www.rajalakshmi.org/icwis09

25-28 Jan: IFIP 2009, 5th IFIP Int’l Conf. on Digital Forensics, Orlando, Florida; www.ifip119.org Conferences

FEBRUARY 2009

2-4 Feb: ESPW 2009, European Systems Packaging Workshop, Kinsale, Ireland; www.ewh.ieee.org/soc/cpmt/tc14


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.
17-19 Feb: CSEET 2009, IEEE Conf. on Software Eng. Education and Training, Hyderabad, India; http://serl.iit.ac.in/CSEET

**MARCH 2009**

9-13 Mar: PerCom 2009, 7th IEEE Int'l Conf. on Pervasive Computing and Communications, Dallas; www.percom.org


29 Mar–4 Apr: ICDE 2009, 25th Int'l Conf. on Data Eng., Shanghai, China; http://i.cs.hku.hk/icde2009

**APRIL 2009**

1-4 Apr: ICST 2009, IEEE Int'l Conf. on Software Testing Verification and Validation, Denver; http://bitterroot.vancouver.wsu.edu/icst2009


6-8 Apr: TridentCom 2009, 5th Int'l Conf. on Testbeds and Research Infrastructures for the Development of Networks and Communities, Washington, DC; www.tridentcom.org


**MAY 2009**


**JUNE 2009**

8-10 June: Arith 2009, 19th IEEE Symp. on Computer Arithmetic, Portland, Oregon; www.ac.usc.es/arith19

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**Events in 2009**

**JANUARY 2009**

8-10 . . . . . . . . . . . ICWIS 2009

25-28 . . . . . . . . . . . IFIP 2009

**FEBRUARY 2009**

2-4 . . . . . . . . . . . . . . ESPW 2009

14-18 . . . . . . . . . . . . . . HPCA 2009

17-19 . . . . . . . . . . . . . . CSEET 2009

**MARCH 2009**

9-13 . . . . . . . . . . . . . . PerCom 2009

14-18 . . . . . . . . . . . . . . VR 2009

17-20 . . . . . . . . . . . . . . ISORC 2009

22-25 . . . . . . . . . . . . . . IFIP 2009

29 Mar–4 Apr . . . . . . . ICDE 2009

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**LICS 2008**

The 24th IEEE Logic in Computer Science Symposium is an annual international forum on theoretical and practical topics in computer science that relate to logic.

Organizers have invited submissions on topics that include hybrid systems, lambda and combinatory calculi, linear logic, logical aspects of computational complexity, and probabilistic systems.

The symposium is sponsored by the IEEE Computer Society Technical Committee on Mathematical Foundations of Computing, in cooperation with the Association for Symbolic Logic and the European Association for Theoretical Computer Science.

LICS will take place from 11-14 August 2009 in Los Angeles. Abstracts are due by **12 January 2009**. Visit www2.informatik.hu-berlin.de/lics/lics09/index.html for more details on LICS 2009, including a complete call for papers.

