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 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 PAPERS

• 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.


CALENDAR
DECEMBER 2008


9-12 Dec: ADMI 2008, IEEE/WIC/ACM Int'l Workshop on Agents and Data Mining Interaction (with WI-IAT), Sydney; www.agentmining.org/admi08

10-12 Dec: CIMCA 2008, 2008 Int'l Conf. on Computational Intelligence for Modelling, Control and Automation (with IAWTIC and ISE), Vienna; http://community.ise.canberra.edu.au/conference/cimca08


17-20 Dec: ESO 2008, 3rd Int'l Workshop on Embedded Software Optimization (with EUC), Shanghai; www.utdallas.edu/~qiumk/ESO2008

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.

17-20 Dec: HiPC 2008, Int’l Conf. on High-Performance Computing, Bangalore, India; www.hipc.org


JANUARY 2009

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

FEBRUARY 2009

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


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

MARCH 2009

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


APRIL 2009


JUNE 2009

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

AUGUST 2009


IEEE Virtual Reality 2009

Leading researchers and practitioners will meet to share innovative research, groundbreaking technologies, pioneering concepts, and hands-on experiences in the disciplines of virtual reality, augmented reality, and 3D user interfaces at IEEE VR 2009.

Organizers have solicited papers on topics that include 3D interaction for virtual reality; virtual reality systems and toolkits; augmented and mixed reality; haptics, audio and other nonvisual interfaces; and advanced display and immersive projection technologies.

The IEEE Symposium on 3D User Interfaces will run concurrently and share a venue with VR 2009 from 14-18 March 2009 in Lafayette, Louisiana.

Also at VR 2009 are the Techsouth Trade Show & Exposition, and the VR Content Showcase, a six-sided CAVE immersive visualization environment where participants can share and enjoy top VR multimedia projects.

For complete conference details, including registration information as it becomes available, visit http://conferences.computer.org/vr.