

Society Conferences Attract Top Researchers

Throughout the remainder of 2005, the IEEE Computer Society will sponsor numerous conferences that cover many diverse disciplines in computing.

Computer Society conferences draw researchers and practitioners from around the world. The Society sponsors events that range in size from focused workshops of a few dozen participants to prestigious symposia that welcome thousands of registrants.

20-26 June

CVPR 2005 **IEEE Computer Society** **Conference on Computer Vision** **and Pattern Recognition**

The IEEE Computer Society Conference on Computer Vision and Pattern Recognition conference series focuses on developments in pattern recognition, artificial intelligence, expert systems, natural-language understanding, image processing, and computer vision.

Conference papers will address such topics as perceptual interfaces, vision systems, and video analysis and event recognition. Scheduled on-site tutorials and workshops will address topics from computer vision and related application areas. CVPR is the annual North American flagship event for the IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence.

CVPR 2005 is set this year in San Diego, California. Organizers will produce and distribute a DVD compilation of live demonstrations of working vision systems.

For more information on CVPR 2005, visit <http://www.cs.duke.edu/cvpr2005/>.



6-8 July

ICME 2005 **IEEE Conference on** **Multimedia and Expo**

Digitally processed video, audio, imaging, music, and games are becoming an ever-larger part of our daily lives, and DVDs, MP3 players, and digital cameras are approaching ubiquity in developed regions.

ICME brings together researchers, developers, and practitioners working in all areas of multimedia. Conference participants will discuss the hottest trends in multimedia systems and technologies, including the implications of ubiquitous digital processing.

The annual conference is a cooperative activity sponsored by four IEEE societies: the Computer Society, Circuits and Systems Society, Communications Society, and Signal Processing Society.

Tutorials covering multimedia processing, applications, standards, and systems will be presented on 5 July. The tutorials will feature a variety of topics, with some geared toward newer members of the multimedia community and others suitable for more experienced researchers.

For more details on the conference, which takes place this year in Amsterdam, visit www.icme2005.org/.

8-12 August

CSB 2005 **IEEE Computational Systems** **Bioinformatics Conference**

Since 2002, the CSB conference series has promoted a systems-biology approach to biology and related fields of research. This approach incorporates elements of biology, computer science, mathematics, chemistry, physics, medicine, and engineering.

Keynote speakers at CSB 2005 are expected to include Sydney Brenner of the Salk Institute and Russ Altman of Stanford University. Organizers have also solicited proposals for tutorials in comparative genomics, clinical systems for decision support, and electronic medical records, among other topics. Two related workshops are scheduled for 12 August: Bioimage Data Mining and Informatics, and Controlling Complexity.

The IEEE Computer Society Technical Committee on Bioinformatics is the primary sponsor of CSB 2005, with Hewlett-Packard participating as an industry sponsor. CSB takes place each August on the campus of Stanford University in Palo Alto, California.

Visit <http://conferences.computer.org/bioinformatics/> for further details, including registration information as it becomes available.

14-16 August

Hot Chips 17 **Symposium on High-Performance** **Chips**

Because of their reliable focus upon tangible results, the Hot Chips conferences attract hundreds of semiconductor industry leaders each year. Hot Chips 17 will continue a tradition of

highlighting real products and realizable technologies that employ high-performance microprocessors and integrated circuits.

Thirty-minute talks are the featured format at Hot Chips. Although participants do not submit written papers in advance, a select group will be invited to submit papers for inclusion in a special issue of *IEEE Micro*.

From 17 to 19 August, immediately following Hot Chips 17, the Computer Society presents another meeting of interest to the system design community. Hot Interconnects 13 brings together designers and architects of high-performance chips, software, and systems. Both conferences take place each August on the Stanford University campus in Palo Alto, California. The IEEE Computer Society Technical Committee on Microprocessors and Microcomputers sponsors both events.

For more information on Hot Chips 17, visit the conference Web site at www.hotchips.org/; for Hot Interconnects 13, see www.hoti.org/.

27-30 September

Cluster 2005 IEEE International Conference on Cluster Computing

Resource-intensive applications can tax the processing power of even high-performance stand-alone machines. However, clusters of commodity-grade computers provide a convenient, cost-effective, and increasingly common platform for running such demanding programs. The Cluster conference series presents recent technological developments and applications in cluster computing.

Cluster 2005 participants will present findings in hardware systems and networks, system software and tools, programming models, and system management and administration. The IEEE Computer Society Press will publish proceedings from Cluster 2005, which takes place this year in Boston.

The IEEE Computer Society's Technical Committee on Scalable Com-

puting sponsors Cluster 2005 and two related onsite workshops: HeteroPar 2005, and RAIT 2005.

Proposals for poster presentations are due by 8 June. Early registration for the conference ends 30 August. Visit <http://cluster2005.org/> for further details.

2-7 October

MoDELS 2005 8th ACM/IEEE International Conference on Model-Driven Engineering Languages and Systems

The new MoDELS conference is devoted to model-driven engineering, covering both languages and systems used to create complex systems. The conference is intended as the first of an annual event that will expand upon the former Unified Modeling Language (UML) conference series.

MoDELS 2005 will include conference paper presentations, workshops, tutorials, posters, and a tool exhibition. Invited to give keynote talks at MoDELS 2005 are Douglas Schmidt of Vanderbilt University and Juha-Pekka Tolvanen of MetaCase.

The IEEE Computer Society Technical Committee on Software Engi-

neering and the ACM's Sigsoft committee are sponsors of MoDELS, set this year in Montego Bay, Jamaica. Commercial sponsors this year are Digicel, IBM, Microsoft, and Air Jamaica.

Conference organizers are soliciting tutorial proposals until 6 June. Proceedings from MoDELS 2005 will be published in the *Software and Systems Modeling* quarterly journal. Visit www.umlconference.org/ for more program and registration information as it becomes available.

18-21 October

ISWC 2005 9th International Symposium on Wearable Computers

ISWC 2005, the ninth annual IEEE International Symposium on Wearable Computers, will bring together researchers, product vendors, fashion designers, textile manufacturers, and users to share information and advances in wearable computing.

Planned topics at ISWC 2005 include the application of wearable systems in consumer, industrial, medical, educational, and military domains. Research results on architectures that allow wearable computers to exploit

Three Computer Society Editors in Chief Gain Second Terms

In a recent vote, the IEEE Computer Society Board of Governors approved the reappointment of the editors in chief of three Computer Society publications.

Jean Bacon, of the UK's University of Cambridge Computer Laboratory, remains at the helm of *IEEE Distributed Systems Online*. Bacon also holds a seat on the Computer Society Board of Governors through 2007.

David Alan Grier, of the Elliott School of International Affairs at George Washington University, will again serve as editor in chief of *IEEE Annals of the History of Computing*. Grier is author of *When Computers Were Human* (ISBN 0-691-09157-9), a new title from the Princeton University Press.

Don Shafer, Chief Technology Officer of the Austin, Texas-based Athens Group, will maintain his leadership role at IEEE CS Press. Shafer is a senior member of the IEEE and an adjunct professor of software engineering at Texas State University.

Computer Society editors in chief serve two-year terms and can be reappointed once to a second term. For more information on volunteer opportunities within the Computer Society, visit www.computer.org/volunteers/.

surrounding infrastructure will also be presented.

A wearable computer fashion show will feature a model runway and presentations describing real-life applications. Also, as in past years, the conference will offer an informal gadget show.

The IEEE Computer Society Technical Committee on Visualization and Graphics sponsors ISWC, which takes place this year in Osaka, Japan. For more program and registration information, visit www.cc.gatech.edu/ccg/iswc05/.

19-22 October

**FIE 2005
Frontiers in Education**

Significant challenges loom in the future of computer science, engineering, and technology education. Industry globalization, changing student demographics, and funding problems suggest the need to explore new paradigms. Since 1971, the Frontiers in Education conference has provided a forum for addressing such challenges.

Topics to be discussed at FIE 2005 include entrepreneurship programs, Web-based software, nontraditional student needs, and innovative uses of technology in the classroom. A series

of three-hour special-interest workshops is set to precede the conference on 19 October.

Taking place this year in Indianapolis, Indiana, FIE 2005 is presented by the IEEE Computer Society in conjunction with the IEEE Education Society and the American Society for Engineering Education's educational research methods division. Sponsoring corporate affiliates for 2005 include HP, John Wiley & Sons, MathWorks, Autodesk, and Microsoft.

For more information on FIE 2005, visit <http://fie.engrng.pitt.edu/fie2005/>.

23-28 October

**Vis2005
IEEE Visualization Conference**

Vis2005 is the latest in a respected series for sharing advances in science and engineering visualization. The event brings together researchers and practitioners with a common interest in techniques, tools, and technology. Sponsored by the IEEE Computer Society Technical Committee on Visualization and Graphics, Vis2005 will offer tutorials on topics that include cognition, insight, and sense making; visualization design; high-performance computing; and graphics programming tools.

Colocated with Vis2005 in Minneapolis are InfoVis2005, the IEEE Symposium on Information Visualization, and PVG2005, the IEEE Symposium on Parallel and Large-Data Visualization and Graphics. Organizers are accepting poster submissions and proposals for workshop topics until 30 June. Interactive demonstration lab proposals are due by 1 August.

For further details on Vis2005, visit <http://vis.computer.org/vis2005/>.

8-10 November

**ITC 2005
International Test Conference**

At ITC, design and test professionals confront challenges facing the test community. Since 1970, ITC has explored the electronic test of devices, boards, and systems, covering the complete cycle from design verification, testing, diagnosis, and failure analysis.

Featuring the theme "Test: Survival of the Fittest," the 2005 conference invites representatives from academia, design tool and equipment suppliers, test engineers, and designers. Topics will include challenges presented by very-deep-submicron technologies and the competition for dominance among alternative systems.

More than 40 companies will exhibit at ITC 2005, making it the largest exposition of semiconductor test products, systems, and services in the world.

Sponsored by IEEE Computer Society Test Technology Technical

Computer Society Awards Committees Seek Nominations by 1 October

Each year, the IEEE Computer Society awards program honors computer professionals' technical achievements, service to the computer profession, and service to the Society.

Among the two dozen awards presented every year are the Seymour Cray Award, in recognition of major contributions to high-performance computing systems; the Harlan D. Mills Award, for innovation in the theory and practice of information sciences; and the Computer Science & Engineering Undergraduate Teaching Award, for an outstanding record in computer science and engineering education. All members are encouraged to nominate qualified candidates for consideration.

Nominations for most Computer Society awards are due by **1 October**. Nominations for the Seymour Cray, Sidney Fernbach, and Computer Science and Engineering Undergraduate Teaching Awards are due by **31 July**. For nomination forms and details on individual awards, visit www.computer.org/awards/.

Editor: Bob Ward, *Computer*,
bnward@computer.org

Council, ITC 2005 will take place in Austin, Texas. Visit www.itctestweek.org/ for more program and registration information as it becomes available.

12-16 November

Micro 38th International Symposium on Microarchitecture

The International Symposium on Microarchitecture series promotes close interaction between academic researchers and industrial designers in microcomputing. Micro 38 promises to continue this tradition, bringing together researchers in fields related to processor architecture, compilers, and systems.

Micro 38, in Barcelona, Spain, will address ILP and TLP architectures and compiler techniques, embedded and application-specific processors, fine-grain parallel processing, and microarchitecture modeling and simulation methodology.

The conference is sponsored by the IEEE Computer Society Technical Committee on Microprogramming and Microarchitecture, in cooperation with the ACM's Sigmicro committee. Micro 38 organizers are accepting proposals for tutorial sessions until 3 June. Visit <http://pcsostres.ac.upc.edu/micro38/> for the full call for tutorial proposals and other conference information.

12-18 November

SC 2005 International Conference for High-Performance Computing and Communications

SC 2005, a leading conference on high-performance computing, networking, and storage, offers many innovations in addition to traditional talks and presentations. This year, SC's theme is "Gateway to Discovery." At SC, participants exchange new ideas, share recent successes, and plan strategies for the future.

The StorCloud Challenge, featuring a virtual on-site storage-on-request

area network, returns in 2005 to pit developers against one another in a competition for the best storage-intensive application. In addition, SC 2005's new HPC Analytics initiative will showcase powerful analytics applications that solve complex problems.

Sponsored by the IEEE Computer Society and the ACM's Sigarch, the conference moves this year to Seattle. Online registration opens 1 August. Conference organizers will accept abstracts for poster, research, and

birds-of-a-feather sessions until 25 July. For more program information, visit www.sc-conference.org/sc2005/.

IEEE Computer Society members receive a 25 percent discount on registration fees at any of the more than 100 Society-sponsored conferences and technical events held each year. For a complete list of scheduled conferences, visit www.computer.org/conferences/. ■

IEEE Division VIII 2006 Director-Elect Candidates Selected

The IEEE Computer Society Board of Governors voted at a recent meeting to nominate three Society members as candidates for 2006 IEEE Division VIII director-elect.

Gerald L. Engel, 2005 Computer Society president; Gene F. Hoffnagle, 2004-2005 IEEE Division V director; and Thomas W. Williams, 2002-2004 Computer Society board member, will each occupy a position on the November IEEE ballot. The winner will succeed Stephen L. Diamond, whose term of service as Division VIII director ends in December 2006.

Division directors represent the members of IEEE societies on the IEEE Board of Directors and the IEEE Technical Activities Board. Division V and VIII directors represent the Computer Society. Each director serves one year as director-elect and two years as a sitting director.

For more information on the 2005 IEEE elections, visit www.ieee.org/portal/pages/corporate/elections/candidates.html.

IEEE-SA Seeks Nominations for Individual and Corporate Awards

The IEEE Standards Association Awards Committee is seeking nominations for the 2005 IEEE-SA International Award and the 2005 IEEE-SA Corporate Award. The awards are presented each year to individual and corporate members of the IEEE-SA in recognition of extraordinary contributions to the advancement of the association's international goals and for leadership in the standards community.

The IEEE-SA, a globally recognized standards-setting body, develops standards through an open process that welcomes input from all sectors of industry and academia. Computer Society standards bodies operating under IEEE-SA include the Portable Applications, Test Technology, Simulation Interoperability, and Information Assurance standards committees. The association has completed more than 870 standards and has more than 400 standards in development.

The awards, which consist of a crystal sculpture and certificate, will be presented at an IEEE-SA awards ceremony on 4 December 2005, in Hallandale, Florida. The deadline for nominations is 31 May. For further details, including nomination forms, visit <http://standards.ieee.org/sa/aw/>.

Board of Governors Revises Society Bylaws

At a recent meeting in Portland, Oregon, the IEEE Computer Society Board of Governors voted to clarify a passage in the Society's bylaws that specifies procedures for the nomination of candidates for president-elect, first vice president, and second vice president. Since not all elected board members hold voting power, the word "elected" was deleted in favor of the more-specific term "franchised." In particular, IEEE Division V and VIII Directors are elected by the Computer Society membership but hold nonvoting seats on the Society's Board.

The proposed changes alter the Computer Society bylaws. Society members are invited to comment before the next Board of Governors meeting, set for June. Deletions are

marked in strikethrough text, and insertions are underlined.

Article II—Nominations and Elections

Section 5: Officer Nominations

Annually the Nominations Committee shall provide a list of nominees for positions of president-elect, first vice president, and second vice president, at least four weeks prior to the board meeting at which the board shall select nominees. One or more nominees shall be proposed for each of these offices. Additional nominees for any position may be nominated by written petition of one-third of the ~~elected~~ franchised board members. Such nominations must be received by the secretary at least 10 days prior to the above

meeting. The board shall select by secret ballot nominees for the positions of president-elect, first vice president, and second vice president, and the names of those nominees shall then be published in a society publication nominally reaching the entire membership. In the same issue there shall be a request for petitions for additional nominees. Additional nominees may be named by signature of at least 1,000 voting members of the society, with each member eligible to sign one petition for each office.

Members can submit comments on the proposed bylaw change to Deborah M Cooper, 2005 chair of the Computer Society Constitution & Bylaws Committee, at cb2005@computer.org. ■



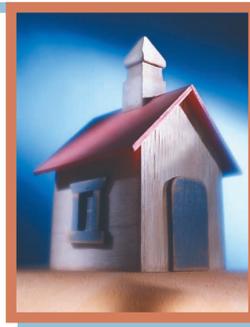
JOIN A THINK TANK

Looking for a community targeted to your area of expertise? IEEE Computer Society Technical Committees explore a variety of computing niches and provide forums for dialogue among peers. These groups influence our standards development and offer leading conferences in their fields.

Join a community that targets your discipline.

In our Technical Committees, you're in good company.

www.computer.org/TCsignup/



SCHOLARSHIP MONEY FOR STUDENT LEADERS

Student members active in IEEE Computer Society chapters are eligible for the Richard E. Merwin Student Scholarship.

Up to ten \$4,000 scholarships are available.

Application deadline: 31 May



Investing in Students

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