Computer Society Announces
Summer and Fall Conferences

Throughout the year, the IEEE Computer Society sponsors hundreds of conferences that cover a wide spectrum of the diverse disciplines in computing. Computer Society conferences range in size from focused workshops of a few dozen participants to prestigious symposia that attract thousands of computer researchers, practitioners, and users from around the world.

17-22 June

CVPR 2006
IEEE Computer Society Conference on Computer Vision and Pattern Recognition

The CVPR conference series focuses on late-breaking developments in expert systems, natural-language understanding, pattern recognition, image processing, artificial intelligence, and computer vision.

Conference organizers have solicited papers on topics that include motion estimation, multicamera scene flow, and probabilistic image models. Scheduled on-site tutorials and workshops will include presentations on human-centered vision systems, content-based image and video retrieval, and 3D cinematography.

CVPR, which takes place this year in New York, is the annual North American flagship event for the IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence.

For more information on CVPR 2006, visit www.cvpr.org/2006.

9-12 July

ICME 2006
IEEE International Conference on Multimedia & Expo

ICME is a major annual international conference that brings together researchers, developers, and practitioners from academia and industry who work in all areas of multimedia. The conference serves as a forum for discussing state-of-the-art research, development, and implementations of multimedia systems, technologies, and applications. Expert presenters will deliver papers on topics that include virtual reality and 3D imaging, signal processing for media integration; multimedia communications and networking; and audio, image, and video processing.

The 2006 event, in Toronto, will also feature distinguished keynote speeches, tutorials, special sessions, and an industrial exhibition. ICME is cosponsored by four IEEE societies: the Computer Society, the Circuits and Systems Society, the Communications Society, and the Signal Processing Society.

For more information on ICME 2006, visit www.icme2006.org.

16-20 September

PACT 2006
15th International Conference on Parallel Architectures and Compilation Techniques

PACT is a multidisciplinary conference that brings together experts in both hardware and software to present groundbreaking research related to parallel systems. Highlighted areas include instruction-level parallelism, thread-level parallelism, multiprocessor parallelism, and distributed systems.

Conference organizers have solicited papers that address cutting-edge research in architecture, compilers, languages, and applications across a broad range of topics including hardware and software for network processing, reconfigurable computing, compilers and tools for parallel computer systems, and nontraditional computing systems.

Set this year in Seattle, the PACT conference series is sponsored by the IEEE Computer Society, the ACM, and the International Federation for Information Processing.


25-28 September

Cluster 2006
IEEE International Conference on Cluster Computing

In recent years, clusters of commodity-grade PCs have matured to become cost-effective computing platforms for executing a wide range of high-performance applications. At Cluster 2006 in Barcelona, Spain, researchers, practitioners, and users will meet to discuss
issues, directions, and results that will shape the future of cluster computing.

Conference papers will address such topics as clustering for high-availability applications, grid computing and clusters, and performance analysis and evaluation strategies. Scheduled onsite tutorials and workshops will address topics from computer vision and related application areas.

This year, the Cluster conference, the leading annual event sponsored by the IEEE Technical Committee on Scalable Computing, shares its venue with the IEEE/ACM International Conference on Grid Computing.

To learn more about Cluster 2006, visit www.cluster2006.org.

1-6 October

MoDELS 2006
8th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems

The MoDELS conference is devoted to the topic of model-driven engineering, covering both the languages and the systems used to create complex systems. The conference is both an expansion and a redirection of previous Unified Modeling Language conferences, and it has replaced that series of conferences since last year.

The 2006 conference will feature paper presentations, workshops, tutorials, posters, and a tool exhibition. A doctoral symposium at MoDELS will provide an international forum for doctoral students to interact with other students and faculty mentors, while a similar educator’s symposium offers teachers and professors an opportunity to discuss pedagogy and share methods for incorporating model-driven development into curricula.

The IEEE Computer Society Technical Committee on Software Engineering and the ACM’s Sigsoft group cooperate to sponsor MoDELS, which takes place this year in Genoa, Italy.

Visit www.modelsconference.org for more program and registration information as it becomes available.

11-14 October

ISWC 2006
10th IEEE International Symposium on Wearable Computers

ISWC 2006 invites researchers, product vendors, fashion designers, textile manufacturers, users, and other interested parties to share information and advances in wearable computing.

Conference organizers have solicited submissions of papers, posters, demonstrations, tutorials, and exhibits on all facets of wearable computing. Examples of paper topics for ISWC 2006 include applications of wearable systems in consumer, industrial, medical, educational, and military domains; the use of wearable computers as components of larger systems; wearable system design; and systems designed to support collaborative work.

ISWC will again host a brief gadget show, where attendees are invited to bring their most interesting toys for an informal show-and-tell.

Set this year in Montreux, Switzerland, ISWC is sponsored by the IEEE Computer Society Technical Committee on Wearable Information Systems.

For further conference information, visit www.cc.gatech.edu/gvu/ccg/iswc06.

24-26 October

ITC 2006
International Test Conference

ITC is the world’s premier conference dedicated to the electronic test of devices, boards, and systems. The 2006 conference theme is “Getting More Out of Test.”

The cornerstone of the annual Test Week event, ITC offers a wide variety of technical activities targeted at test and design theoreticians and practitioners, including formal paper sessions, tutorials, panel sessions, case studies, lecture and application series, commercial exhibits and presentations, and several related professional meetings.

Topics addressed at ITC cover the complete cycle from design verification, test, diagnosis, and failure analysis to process and design improvements. Focus areas for the 2006 conference in Santa Clara, California, include adaptive test, bring-up test and debug, design validation, test and post-test data analysis, high-speed digital test, and RF testing.

The IEEE Computer Society awards program honors computer professionals’ service to the Society, technical achievements, and service to the computer profession.

Among the two dozen awards presented every year are the Sidney Fernbach Memorial Award, named for one of the pioneers in the development and application of high-performance computers for the solution of large computational problems; the Software Process Achievement Award for software professionals or teams responsible for an improvement to their organization’s software processes; and the Hans Karlsson Award, which is presented for leadership and achievement through collaboration. All members are encouraged to nominate qualified candidates for consideration.

Most Computer Society awards nominations are due by 1 October. Nominations for the Sidney Fernbach, Seymour Cray, 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.
To learn more about ITC, as well as Test Week, visit www.itctestweek.org.

28-31 October

FIE 2006
Frontiers in Education Conference

FIE 2006, in San Diego, promotes the widespread dissemination of innovations that improve computer science, engineering, and technology education. Key topics this year include the use of new pedagogies and approaches that improve student learning; partnerships among academia, industry, government, and K-12 educators; and curricular reform. FIE organizers have also solicited abstracts of papers that address issues related to identifying and surmounting international, cultural, and social borders.

Paper sessions include formal presentation of peer-reviewed full papers and works in progress. Approximately 350 paper presentations are expected. In addition to core conference activities, FIE 2006 will feature displays from publishers, computer software and hardware companies, lab equipment companies, manufacturers and consulting services, and professional societies.

FIE is sponsored by the IEEE Computer Society, the IEEE Education Society, and the American Society for Engineering Education. Corporate sponsors include Hewlett-Packard and John Wiley & Sons.

Visit http://fie.engrng.pitt.edu/fie2006 for more information on FIE.

29 October-3 November

Vis2006
IEEE Visualization Conference

At the annual IEEE Visualization Conference, leading scientists and engineers discuss recent advances in visualization for academia, government, and industry.

Vis2006 organizers have invited papers in the traditional core of the visualization area. Sample paper topics include large data visualization, isosurfaces and surface extraction, multiresolution techniques, visual knowledge discovery, and unstructured grids. The conference also features full- and half-day tutorials in visualization systems, mathematical foundations, application areas, and methods. Select proceedings from Vis2006 will appear in a special issue of IEEE Transactions on Visualization and Computer Graphics.

This year, the conference shares its Baltimore venue with the 12th IEEE Symposium on Information Visualization and the inaugural IEEE Symposium on Visual Analytics Science and Technology.

Visit http://vis.computer.org/vis2006 for further information on Vis2006 and its associated events.

11-17 November

SC06
Supercomputing Conference

SC06, the leading conference on high-performance computing, networking, and storage, offers a rigorous technical program with refereed papers, tutorials, panels, workshops, posters, awards, and challenges.

Each year at SC, internationally recognized experts present tutorials on a broad range of topics related to high-performance computing, networking, and storage. Additionally, a slate of masterworks presentations will highlight solutions that were beyond imagination just a few years ago but that are realizable today or in the very near future.

Built by volunteers from universities, government and industry, the onsite SCinet combines leading-edge hardware and high-speed wide-area communication links to provide universal connectivity and to support several resource-intensive conference events. Sponsored by the IEEE Computer Society in partnership with the ACM, the conference moves this year to Tampa, Florida.

Online registration for SC06 opens 1 July. To learn more, visit http://sc06.supercomputing.org.

9-13 December

Micro 2006
39th IEEE/ACM International Symposium on Microarchitecture

Historically, the microarchitecture community has benefited from close interaction between academic researchers and industrial designers. Micro 39 encourages participation by researchers and practitioners in all fields related to microarchitecture and its applications.

Conference planners have invited papers in fields that include ILP and TLP architectures and designs; compiler techniques for instruction-, thread-, and memory-level parallelism; microarchitecture support for reliability, dependability, and security; and advanced software/hardware speculation and prediction schemes. In addition to traditional research papers, Micro 39 welcomes qualitative presentations of more forward-looking ideas.

Sponsored by the IEEE Computer Society Technical Committee on Microprogramming and Microarchitecture, in cooperation with the ACM's Sigmicro, Micro 39 takes place in Orlando, Florida.

For more conference information, visit www.microarch.org/micro39.

IEEE Computer Society members receive a 25 percent discount on registration fees at any Society-sponsored conference or technical event. For a complete list of scheduled conferences, visit www.computer.org/conferences.
**IEEE Division V 2007 Director-Elect Candidates Selected**

The IEEE Computer Society Board of Governors voted at a recent meeting to nominate two Society members as candidates for 2007 IEEE Division V director-elect.

Deborah M. Cooper, 2006 IEEE Computer Society president, and Stephen L. Diamond, a past president of the Society, will each occupy a position on the November 2006 IEEE ballot. The winner will succeed past Computer Society president Oscar N. Garcia, whose term of service as Division V director ends in December 2007.

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.


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**IEEE/AACM ECKERT-MAUCHLY AWARD**

The IEEE/AACM Eckert-Mauchly Award, named for computing pioneers John Presper Eckert and John William Mauchly, rewards outstanding contributions to the field of computer and digital systems architecture.

2005 Eckert-Mauchly Award winner Robert P. Colwell was selected “for outstanding achievements in the design and implementation of industry-changing microarchitectures, and for significant contributions to the RISC/CISC architecture debate.”

Author of *The Pentium Chronicles* (Wiley-IEEE Computer Society Press, 2005), Colwell was chief architect of Intel’s IA32 microprocessors from 1992 to 2000, and co-led the team that conceived the company’s P6 microarchitecture, key to its Pentium II, Pentium III, Celeron, Xeon, and Centrino product families. Colwell, a longtime contributor to *Computer*, serving variously as a column editor, editorial board member, and columnist, currently works as an independent consultant in Portland, Oregon.

His other honors include membership in the National Academy of Engineers and Alumni Achievement awards from both Carnegie Mellon University and the University of Pittsburgh. He received a certificate and a $5,000 honorarium.

**W.WALLACE-MCDOWELL AWARD**

The IEEE Computer Society W. Wallace-McDowell Award is presented for outstanding recent theoretical, design, educational, practical, or other similar innovative contributions.

2006 W. Wallace-McDowell Award winner Benjamin Wah was selected “for fundamental contributions to the theory and applications of nonlinear and resource-constrained optimization.” He is the Franklin W. Woeltge Endowed Professor of Electrical and Computer Engineering at the University of Illinois at Urbana-Champaign.

An accomplished author, Wah has published five books and more than 250 papers on nonlinear optimization and related topics. As a volunteer leader, he promoted initiatives in distance learning, continuing education, and cooperative research and served as editor in chief of *IEEE Transactions on Knowledge and Data Engineering* between 1993 and 1996.

Wah’s other honors include the IEEE Computer Society Technical Achievement Award, the IEEE Millennium Award, and the Raymond T. Yeh Lifetime Achievement Award from the Society for Design and Process Science.

Wah served as president of the Computer Society in 2001, and is a Fellow of the IEEE, the ACM, the Society for Design and Process Science, and the American Association for the Advancement of Science. He received a bronze medal and a $2,000 honorarium.

**TECHNICAL ACHIEVEMENT AWARD**

The IEEE Computer Society Technical Achievement Award is presented for outstanding and innovative contributions to the fields of computer and information science and engineering or computer technology, usually within the past 10, and not more than 15 years.
2003 Technical Achievement Award honorees were cited for the following achievements: Anil Jain, of Michigan State University, “for contributions to pattern recognition theory and application to biometric authentication,” and Mukesh Singhal, of the University of Kentucky, “for pioneering contributions to distributed computing systems.”

2004 Technical Achievement Award winners were cited for these achievements: Sumit Ghosh, of the Stevens Institute of Technology, “for fundamental contributions towards a comprehensive engineering measure of network security;” Jiawei Han, of the University of Illinois at Urbana-Champaign, “for contributions in data mining and knowledge discovery, data warehousing, deductive and object-oriented databases;” Shashi Phoha, of Pennsylvania State University, “for pioneering developments of distributed automation for hierarchical control of interacting machines into dynamic reasoning systems;” and Ravi Sandhu, of George Mason University, “for outstanding and pioneering contributions to information security including innovation of the role-based access control model and usage control.”

Computer Society Publications
Welcome New and Returning EICs

The IEEE Computer Society Board of Governors voted at a recent meeting to confirm the appointments of six new and returning editors in chief of individual Computer Society publications.

Society officers selected Hakan Erdogmus of Canada’s National Research Council to lead IEEE Software magazine. Erdogmus is a senior research officer in the NRC’s Institute for Information Technology Software Engineering Group. His current research interests center on software economics and agile and collaborative methods.

Five current editors in chief will continue to serve at the helm of their respective titles.

Norman Chonacky, Yale University, will return as editor in chief of Computing in Science & Engineering magazine. Chonacky is a member of the American Association of Physics Teachers.

James Hendler, University of Maryland, will take on a second term as head of IEEE Intelligent Systems. Hendler is director of the Joint Institute for Knowledge Discovery.

Nitin Vaidya, University of Illinois at Urbana-Champaign, will again direct IEEE Transactions on Mobile Computing. Vaidya was recently named a Distinguished Lecturer for 2006-2007 by the IEEE Communications Society.

David Kriegman, University of California, San Diego, will maintain his leadership role at IEEE Transactions on Pattern Analysis & Machine Intelligence. Kriegman is a senior member of the IEEE and a Golden Core member of the Computer Society.

Xindong Wu, University of Vermont, will continue as editor in chief of IEEE Transactions on Knowledge & Data Engineering. He chaired the IEEE Computer Society Technical Committee on Intelligent Informatics from 2002 to 2006.

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

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