

Computer Society Announces 2008 Program Slate

The IEEE Computer Society has been at the forefront of major developments in computing since 1946. With more than 40 percent of its members living and working outside the US, the Computer Society encourages and facilitates international cooperation, communication, and information exchange.

In 2008, the Society again offers a full catalog of periodicals that address all aspects of computer science and engineering, including 14 magazines, 17 transactions, and one letters publication. The Society also publishes cutting-edge papers and articles from more than 200 conferences, covering topics in all areas of computer science and engineering. All members receive a subscription to *Computer* magazine as a benefit of membership.



computer.org/publications to learn more about the periodicals of your choice.

COMPUTER SOCIETY ONLINE DIGITAL LIBRARY

The IEEE Computer Society Digital Library provides online access to 25 current and former Society magazines, transactions, and letters, more than 2,500 selected conference proceedings, and many tutorials and scholarly books. All members enjoy free online access to *Computer*. An all-in-one CSDL account, available in 2008 for \$121, offers members access to content from any Computer Society publication. This combined resource is available to IEEE Computer Society members and library/institution customers only. Traditional single-magazine subscriptions are also available in print, online, or combined formats. Individual documents are available for \$19.

Access to the full text of individual IEEE Computer Society periodicals is available to members who subscribe and have a valid IEEE web account.

Some IEEE Computer Society periodicals are published in technical cosponsorship with other IEEE societies, and CSDL search results now provide links to materials from the ACM. Article abstract pages include links to resources listed in the bibliographies, and CSDL subscribers can save searches and search terms, making it easier to find new material on a given topic as it appears. Visit www.computer.org/csdl for further details.

VOLUNTEERS LEAD PUBLICATIONS

Members can become more involved with the Society's publications program by serving as authors, reviewers, or editorial board members for individual magazines and journals. Editorial boards work together with professional staff to provide members with the targeted, high-quality content that has been the hallmark of Computer Society publications for more than 60 years.

Several magazines are seeking new editors in chief for 2009. To find out more about these positions, see "Society Publications Seek Editors in Chief for 2009-2010 Terms." Visit the Computer Society web site at www.computer.org.

Nominations Open for IEEE Division V Director-Elect

IEEE Computer Society members are invited to submit nominations for candidates to serve as 2009 IEEE Division V director-elect and 2010-2011 Division V director.

Division directors represent the members of IEEE societies on the IEEE Board of Directors and the Technical Activities Board; Division V and VIII directors represent the Computer Society membership. Elections for Division V director are typically held on even-numbered years, and Division VIII elections are held on odd-numbered years. The elected representative then serves one year in the director-elect role before assuming a two-year division director term.

Past Computer Society president Deborah Cooper currently serves as IEEE Division V director for 2008-2009. Past Computer Society president Thomas Williams, of Synopsys, currently serves as IEEE Division VIII director for 2007-2008. In a recent vote, IEEE members chose another former Computer Society president, Stephen Diamond, as Division VIII director-elect for 2008.

Submit nominations by **11 January** to Michael Williams, Chair, Nominations Committee, IEEE Computer Society, 1730 Massachusetts Ave. NW, Washington, DC 20036-1992 or nominations@computer.org.

E-LEARNING CAMPUS

The IEEE Computer Society e-Learning Campus is another no-cost benefit of membership. Computer Society members have free access to more than 1,300 web-based courses that range from primers on business and office fundamentals, to surveys of security strategies, to specialized technical courses for computing professionals. Offered in partnership with Thomson NETg, courses in the e-Learning catalog offer presentations with voiceovers, 3D graphics, flash animations, onscreen text, and visual sentences that turn complex concepts into easy-to-understand images. Users can take pre-assessment tests, track ongoing progress, and study at a self-directed pace.

Members can also access books, certification courses, and other study materials. Twice each year, volunteers review and select new e-Learning Campus offerings based on survey data and usage numbers.

Books 24x7 collections

Members of the Computer Society enjoy access to a database of more than 500 technical books via a partnership with Books 24x7. Titles cover a broad spectrum of topics in computing.

Members of IEEE or the IEEE Computer Society can now purchase a 12-month subscription to two specialized libraries containing more than 6,200 unabridged books on a variety of technical and engineering topics, including books from IEEE Press. These two libraries, the ITPro (5,500 titles) and EngineeringPro (700 titles) collections, are offered exclusively to IEEE members at a special discounted rate.

To learn more about IEEE Computer Society e-learning opportunities, visit the online campus at www.computer.org/distancelearning.

Certifications

Intended for midlevel software development and software engineering professionals, the IEEE Computer Society Certified Software Development Professional program offers the sole brand-name professional credential in software development. The program encompasses exam-based testing to demonstrate mastery of a well-defined body of knowledge, as well as verification of both a solid experience base in the field and recent continuing professional education work. Visit www.computer.org/certification for complete program information, including fees and test dates.

Online exams available via BrainBench offer practical certifications in areas that include office productivity, business fundamentals, and Cisco networks.

IEEE ReadyNotes

IEEE ReadyNotes are PDF-based guidebooks and tutorials that serve as a quick-start reference for busy computing professionals. Sample titles include *Design-*

ing and Implementing Softcoded Values, Evaluating the Performance of Software Engineering Professionals, and Introduction to Python for Artificial Intelligence. IEEE ReadyNotes sell for \$19 or less. Find the ReadyNotes catalog at www.computer.org/readynotes.

CONFERENCES

IEEE Computer Society technical councils, task forces, and technical committees sponsor the majority of the Society's technical meetings. The following selection of high-profile conferences is a cross-section of the many events presented by the society each year.

8-12 March: IEEE VR 2008

VR2008 IEEE VR 2008 is the leading international conference and exhibition in virtual reality. It provides a unique opportunity for interaction among leading experts in virtual reality and closely related fields such as augmented reality, mixed reality, and 3D user interfaces.

Located this year in Reno, Nevada, VR 2008 will take place in conjunction with the Symposium on Haptic Interfaces and the IEEE Symposium on 3D User Interfaces. Topics at conference-related workshops include virtual cityscapes, massively multiuser virtual environments, and software engineering for interactive systems.

VR 2008 leads the Computer Society Technical Committee on Visualization and Graphics' annual calendar of conferences and workshops. Advance registration fees are \$870 for members, \$1,120 for nonmembers, and \$350 for student members. For further details, visit <http://conferences.computer.org/vr/2008>.

31 March-4 April: ECBS 2008


ECBS 2008 The 15th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems is devoted to the latest research findings in the design, development, deployment, and analysis of complex systems that are largely controlled by computers.

Keynote speakers at ECBS 2008 include Noel Sharkey of the University of Sheffield, Brian Randell of the University of Newcastle upon Tyne, and John Strassner of Motorola Research Labs.

ECBS is colocated with the 13th IEEE International Conference on the Engineering of Complex Computer Systems and the 5th IEEE International Workshop on the Engineering of Autonomic and Autonomous Systems.

Sponsored by the IEEE Computer Society Technical Committee on the Engineering of Computer-Based Systems, the 2008 conference will take place in Belfast, Northern Ireland. Visit www.compeng.ulster.ac.uk/events/ecbs2008 for more information.

**7-12 April:
ICDE 2008**

ICDE |  | 2008 The 24th IEEE International Conference on Data Engineering continues as a premier forum for presenting research results on advanced data-intensive applications and discussing issues in data and knowledge engineering. Conference participants share research solutions and cooperate to identify new issues and directions for future research and development work.

Organizers have called for submissions on topics that include ubiquitous data management, mobile databases, query processing and optimization, data structures and data management algorithms, and XML data processing, filtering, routing, and algorithms.

The IEEE Computer Society Technical Committee on Data Engineering sponsors ICDE 2008 in conjunction with corporate sponsors Microsoft and CIC. Regular conference fees, including workshops, total \$700 for members, \$875 for nonmembers, and \$375 for student members. Visit the ICDE 2008 web site at www.icde2008.org for further details.

**14-18 April:
IPDPS 2008**

The 22nd International Parallel and Distributed Processing Symposium is a forum where researchers, scientists, and engineers present and discuss new findings in parallel processing and distributed computing. The five-day conference features contributed papers, panels, invited speakers, and commercial presentations.

IPDPS participants will also have the opportunity to organize informal birds-of-a-feather sessions. Scheduled workshop topics at IPDPS 2008 include high-level parallel programming models, nature-inspired distributed computing, and communication architecture for clusters. New for 2008 is the PhD Forum, introduced by the IEEE Computer Society Technical Committee on Parallel Processing as an opportunity for graduate students to present their proposed and/or partially completed dissertation work to a broad audience of both academic and industrial researchers and practitioners.

IPDPS 2008, located this year in Miami, is sponsored by the TCPP in cooperation with ACM Sigarch. To learn more about IPDPS 2008, visit www.ipdps.org.

**16-18 April:
Cool Chips XI**


COOLChips XI The 2008 IEEE Symposium on Low-Power and High-Speed Chips is a high-profile international symposium for presenting recent advancements in all areas of microprocessors and their applications.

This year, the Cool Chips symposium will focus on the architecture, design, and implementation of chips in

areas including multimedia, digital consumer electronics, mobile, graphics, encryption, robotics, networking, and biometrics. Cool Chips XI organizers have also solicited original works on novel software solutions to challenges that include binary translations, compiler issues, and low-power techniques.

Cool Chips XI, which takes place in Yokohama, Japan, is sponsored by the IEEE Computer Society Technical Committees on Microprocessors and Microcomputers, and Computer Architecture. Cosponsors include the Institute of Electronics, Information, and Communication Engineers Society, ACM Sigarch, and the Information Processing Society of Japan. For more conference information, visit www.coolchips.org.

**10-18 May:
ICSE 2008**

ICSE LEIPZIG |  | 2008 The 30th International Conference on Software Engineering offers leading researchers, practitioners, and educators an opportunity to present and discuss recent trends in software engineering.

Opportunities for professional engagement include workshops, tutorials, research demonstrations, exhibits, paper tracks on research and education, and special tracks on telecommunications, automotive, and health-care systems. Also scheduled are a doctoral symposium and new faculty symposium.

Several other software engineering-related conferences and symposia are scheduled to run concurrently with ICSE, including the 2008 International Conference on Software Process. The IEEE Computer Society Technical Council on Software Engineering sponsors ICSE in cooperation with ACM Sigsoft. Visit <http://icse08.upb.de> for more conference information.

**18-21 May:
Security and Privacy 2008**

In its 28th year, the IEEE Symposium on Security and Privacy is a premier forum for bringing together researchers and practitioners to present cutting-edge developments in computer security and electronic privacy.

For 2008, conference organizers have solicited papers on topics that include cryptographic protocols, database security, user authentication, and application-level security, among others. Papers presented at the conference represent advances in the theory, design, implementation, analysis, and empirical evaluation of secure systems, both for general use and for specific application domains.

The Security and Privacy conference, which takes place in Berkeley, California, is sponsored by the IEEE Computer Society Technical Committee on Security and Privacy, in cooperation with the International

Association for Cryptologic Research. See www.ieee-security.org/TC/SP2008/oakland08.html for complete conference details.


**19-22 May:
CCGrid 2008**

CCGrid The Eighth IEEE International Symposium on Cluster Computing and the Grid, the latest in a series of successful international conferences that began in 2000, provides researchers and practitioners with an opportunity to share their research and experiences in overcoming challenges in web services and grid technology.

Several workshops and other events complement the larger conference. Workshop topics include high-performance grid networks, computer tools for bioscience, networks and distributed computing platforms, and autonomies for grids and data centers. Taking place in conjunction with CCGrid 2008, the IEEE Computer Society Technical Committee on Scalable Computing Doctoral Symposium provides a forum for students in scalable computing to obtain feedback on their dissertation topics and advice on initiating a research career.


CCGrid 2008, taking place this year in Lyon, France, is sponsored by the IEEE Computer Society TCSC. Visit www.ens-lyon.fr/LIP/RESO/ccgrid2008 for program highlights and more conference information.

**17-20 July:
ICDCS 2008**

 The International Conference on Distributed Computing Systems, the first conference series in the field of distributed computing systems, has provided a forum for engineers and scientists in academia, industry, and government to discuss the latest research findings on topics including agents and mobile code, middleware, and ubiquitous computing. ICDCS 2008 will take place in Beijing.

Conference organizers have solicited papers on topics that include cyberinfrastructure for distributed computing, sensor networks and applications, wireless and mobile computing, multimedia systems, and distributed cyber/physical systems. In its 28th year, ICDCS is presented by the IEEE Computer Society Technical Committee on Distributed Processing, in cooperation with the Chinese Academy of Sciences' Institute of Computing Technologies. Visit www.engin.umd.umich.edu/icdcs for registration and detailed program information as it becomes available.

**28 July-1 August:
SAINT 2008**

 The 2008 Symposium on Applications and the Internet will draw researchers from around the world to share new ideas and findings regarding the Internet and its applica-

tions. Participants come from a spectrum of disciplines in government, industry, and academia.

SAINT organizers have called for papers on topics that include content management, ubiquitous and pervasive computing, Internet communities, network and protocol architectures, and information appliances. SAINT 2008—taking place this year in Turku, Finland—will share its venue with COMPSAC 2008, the IEEE Computer Society Conference on Computer Software and Applications.

Cosponsored by the Information Processing Society of Japan, SAINT is the flagship conference of the IEEE Computer Society Technical Committee on the Internet. Visit www.icta.ufl.edu/saint08 for more conference information.

Proceedings from many conferences are available through the Computer Society Digital Library. CSDL subscribers enjoy full access to an online collection that also includes all Computer Society magazines and most Computer Society journals. Nonsubscribers can search the collection at www.computer.org/csdl and purchase individual documents. IEEE Computer Society members also enjoy as much as a 25 percent discount on registration fees at Society-sponsored conferences. Visit www.computer.org for complete details on all IEEE Computer Society publications, conferences, symposia, technical meetings, volunteer opportunities, and other activities. ■



**IEEE
Computer
Society
members**

**SAVE
25%**

**on all
conferences
sponsored by the
IEEE
Computer Society**

www.computer.org/join

Society Publications Seek Editors in Chief for 2009-2010 Terms

The IEEE Computer Society seeks applicants for the position of editor in chief for the following publications for two-year terms starting **1 January 2009**: *IEEE Intelligent Systems*, *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, *IEEE Transactions on Knowledge and Data Engineering*, and *IEEE Transactions on Pattern Analysis and Machine Intelligence*.

QUALIFICATIONS AND REQUIREMENTS

Candidates for any Computer Society editor-in-chief position should possess a good understanding of industry, academic, and government aspects of the specific publication's field. In addition, candidates must demonstrate the managerial skills necessary to process manuscripts through the editorial cycle in a timely fashion. An editor in chief must be able to attract respected experts to his or her editorial board. Major responsibilities include

- actively soliciting high-quality manuscripts from potential authors and, with support from publication staff, helping these authors get their manuscripts published;
- identifying and appointing editorial board members, with the concurrence of the Publications Board;
- selecting competent manuscript reviewers, with the help of editorial board members, and managing timely reviews of manuscripts;
- directing editorial board members to seek special-issue proposals and manuscripts in specific areas;
- providing a clear, broad focus through promotion of personal vision and guidance where appropriate; and
- resolving conflicts or problems as necessary.

Applicants should possess recognized expertise in the computer science and engineering community and must have clear employer support.

SEARCH PROCEDURE

Prospective candidates are asked to provide, by **15 March**, a complete curriculum vitae, a brief plan for the publication's future, and a letter of support from their institution or employer. Materials should be sent as PDF files to the staff coordinators listed below.

Contact information for each publication follows.

- *IEEE Intelligent Systems*: www.computer.org/intelligent/eicsearch08.html
- *IEEE/ACM Transactions on Computational Biology and Bioinformatics*: Alicia Stickley, astickley@computer.org

- *IEEE Transactions on Knowledge and Data Engineering*: Alicia Stickley, astickley@computer.org
- *IEEE Transactions on Pattern Analysis and Machine Intelligence*: Alicia Stickley, astickley@computer.org

REAPPOINTMENTS

Several other IEEE Computer Society publications have editors in chief who are currently standing for reappointment to a second two-year term. The IEEE Computer Society Publications Board invites comments upon the tenures of the individual editors.

Editors in chief standing for reappointment to terms in 2009-2010 are Carl Chang, *Computer*; Fred Douglass, *IEEE Internet Computing*; David Albonesi, *IEEE Micro*; Carl Landwehr, *IEEE Security and Privacy*; Hakan Erdogmus, *IEEE Software*; Fabrizio Lombardi, *IEEE Transactions on Computers*; and Thomas Ertl, *IEEE Transactions on Visualization & Computer Graphics*.

Send comments to

- *Computer*: Scott Hamilton, shamilton@computer.org
- *IEEE Internet Computing*: Rebecca Deuel, rdeuel@computer.org
- *IEEE Micro*: Robin Baldwin, rbaldwin@computer.org
- *IEEE Security and Privacy*: Kathy Clark-Fisher, kclark-fisher@computer.org
- *IEEE Software*: Dale Strok, dstrok@computer.org
- *IEEE Transactions on Computers*: Alicia Stickley, astickley@computer.org
- *IEEE Transactions on Visualization & Computer Graphics*: Alicia Stickley, astickley@computer.org

NEW EDITORS IN CHIEF

Several other IEEE Computer Society publications have editors in chief who are beginning an initial two-year term in 2008.

Jeffrey Yost, of the University of Minnesota, now directs *IEEE Annals of the History of Computing*. Alan Clements, of the UK's University of Teesside, now leads the IEEE Computer Society Press. Virgil Gligor, of the University of Maryland, now heads *IEEE Transactions on Dependable and Secure Computing*. J. Edward Colgate of Northwestern University and Liang-Jie Zhang of IBM's T.J. Watson Research Center will serve as inaugural editors in chief of new titles *IEEE Transactions on Haptics* and *IEEE Transactions on Services Computing*, respectively.