The IEEE Computer Society has been committed to fostering innovation in computing for more than six decades. With more than 40 percent of its members living and working outside the US, the Computer Society strongly encourages and facilitates international cooperation, communication, and information exchange.

In 2010, the Computer Society again offers a full catalog of periodicals that address all aspects of computer science and engineering, including 13 magazines, 12 transactions, and one letters publication. The Society also publishes cutting-edge papers and articles from hundreds of conferences, covering topics in all areas of computer science and engineering. All members receive a free subscription to Computer magazine as a benefit of membership.

COMPUTER SOCIETY ONLINE DIGITAL LIBRARY

Society members enjoy online access to 28 current and former Society magazines, transactions, and letters, as well as nearly 4,000 selected conference proceedings, tutorials, and scholarly books via the IEEE Computer Society Digital Library. Computer Society student members receive free access to the CSDL as a benefit of membership. Traditional single-magazine subscriptions are also available in print, online, or combined formats. Users who are not yet members of the Society may purchase individual articles for $19.

Visit www.computer.org/portal/web/csdl for complete details.

VOLUNTEER OPPORTUNITIES IN PUBLICATIONS

IEEE Computer Society publications are led by volunteer editorial boards that work together with professional staff to provide the targeted, high-quality content that has been the Society’s hallmark for more than 60 years.

Several titles are seeking new editors in chief for terms beginning in 2011. To find out more about these positions, see the “Society Publications Seek Volunteers for 2011-2012 Editor in Chief Terms” article.

Members can also become involved with the Society’s publications program by volunteering to serve as authors and reviewers for individual magazines and journals. Visit www.computer.org/publications to learn more about opportunities at each title.

COMPUTER SOCIETY E-LEARNING CAMPUS

Another free benefit of membership is the IEEE Computer Society e-Learning Campus. Computer Society members have access to more than 3,000 Web-based courses that include specialized technical classes for computing professionals, primer on office productivity, key courses in business fundamentals, and a full suite of courses on Cisco networking technology.

Members can also access books, certification courses, and other study materials. Twice each year, a committee of volunteers reviews and selects new e-Learning Campus offerings based on survey data and usage numbers. Start exploring the campus at www.computer.org/portal/web/e-learning.

Certifications

Intended for mid-level software development and software engineering professionals, the IEEE Computer Society Certified Software Development Professional program offers the only brand-name professional credential in software development. The program requires strong performance on an examination that demonstrates 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.

The Certified Software Development Associate program is intended for beginning software developers and engineers. The CSDA is the first step toward earning full CSDP certification.

Visit www.computer.org/portal/web/getcertified for complete details including requirements, fees, and test dates.

Exams

Proficiency exams by Brainbench help demonstrate knowledge in a
particular area. Members receive free access to the exams, and official certificates are available at a special member rate. Learn more at www.computer.org/portal/web/e-learning/brainbench.

**Books 24x7 Collections**

Computer Society professional and student members now receive free access to 600 selections from Safari Books Online. Safari offers online technical books from noted computer publisher O’Reilly and other leading publishers including Addison-Wesley, Cisco Press, FT Press, and Prentice Hall. Complete details are available at www.computer.org/safari.

Another 500 technical references are available to members via Element K. Members can visit www.computer.org/portal/web/e-learning/ekbooks to access this benefit.

**COMMUNITIES AND ONLINE RESOURCES**

The IEEE Computer Society maintains a robust online presence via Computing Now, a one-stop source for new print and online content from the 13 peer-reviewed IEEE Computer Society magazines, as well as selections from the Society’s journals and conference proceedings.

Other opportunities and services sponsored by the Computer Society include local and student chapter activities; standards groups; career resources; conference management and publications services; educational, professional, and technical panels; and a highly regarded awards program.

**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 this year.

**ICDE 2010**

Data engineering addresses the use of engineering techniques and methodologies in the design, development, and assessment of information systems for different computing platforms and application environments. The 26th IEEE International Conference on Data Engineering, in Long Beach, California, 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 that address research issues in designing, building, managing, and evaluating advanced data-intensive systems and applications.

ICDE 2010 is the flagship conference of the IEEE Computer Society Technical Committee on Data Engineering. Visit the ICDE 2010 website at www.icde2010.org for full conference details, including registration information as it becomes available.
20-24 March: IEEE VR 2010

Innovative research, groundbreaking technology, pioneering concepts, and hands-on experiences in the disciplines of virtual reality, augmented reality, and 3D user interfaces will be highlighted at IEEE Virtual Reality 2010.

Located in Waltham, Massachusetts, VR 2010 will take place in conjunction with the IEEE Symposium on 3D User Interfaces and the Symposium on Haptic Interfaces. Conference organizers have solicited papers on topics that include immersive gaming, VR systems and toolkits, augmented and mixed reality, and computer graphics techniques.

VR 2010 leads the Computer Society Technical Committee on Visualization and Graphics’ annual calendar of conferences and workshops. For further details, visit http://conferences.computer.org/vr/2010.

22-26 March: ECBS 2010

The 17th IEEE International Conference and Workshop on the Engineering of Computer-Based Systems is devoted to advancing the design, development, deployment, and analysis of complex systems that are largely controlled by computers.

Conference organizers have solicited papers on topics that include autonomic systems, component-based system design, ECBS infrastructure, reengineering and reuse, and verification and validation.

ECBS shares a venue with the IEEE International Conference on Engineering of Complex Computer Systems and the IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous Systems.


14-16 April: Cool Chips XIII

Cool Chips XIII is the 2010 IEEE Symposium on Low-Power and High-Speed Chips is a high-profile international forum for presenting recent advancements in all areas of microprocessors and their applications.

This year, Cool Chips will focus on the architecture, design, and implementation of chips in three areas: low-power, high-performance processors, including “eco-processors,” for multimedia, consumer electronics, healthcare, biometrics, and more; novel architectures and schemes for single core, multicore, embedded, and wireless systems; and cool software including binary translations, compiler issues, and low-power techniques.

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

19-23 April: IPDPS 2010

The 24th International Parallel and Distributed Processing Symposium is a forum where researchers, scientists, and engineers present and discuss new findings in distributed computing and parallel processing. The five-day conference features invited speakers, panels, contributed papers, and commercial presentations.

IPDPS 2010 participants will also have the opportunity to organize informal birds-of-a-feather sessions. Scheduled workshop topics include reconfigurable architectures, high-level parallel programming models, and system management techniques, processes, and services. Returning in 2010 is the popular PhD Forum, introduced by the IEEE Computer Society Technical Committee on Parallel Processing as an opportunity for graduate students to present their proposed or partially completed dissertation work to a broad audience of both academic and industrial researchers and practitioners.

IPDPS 2010, located this year in Atlanta, is sponsored by the TCPP in cooperation with ACM Sigarch. To learn more about IPDPS 2010, visit www.ipdps.org.

16-19 May: Security and Privacy 2010

The 2010 IEEE Symposium on Security and Privacy marks the 31st annual meeting of this flagship conference. Since 1980, S&P has been the premier forum for presenting developments in computer security and electronic privacy, and for bringing together researchers and practitioners in the field. For 2010, conference organizers have solicited papers on topics that include forensics, hardware-based...
security, information flow, intrusion detection, security architectures, and malicious code, 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.

S&P, 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 http://oakland31.cs.virginia.edu for complete conference details.

17-20 May: 
CCGrid 2010

CCGrid The 10th 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 at CCGrid include resiliency in high-performance computing and challenges for the application of grids in healthcare.

CCGrid 2010, set this year in Melbourne, is sponsored by the IEEE Computer Society Technical Committee on Scalable Computing. Taking place in conjunction with CCGrid 2010, the International Scalable Computing Challenge is also sponsored by the TCSC.

Visit www.manjrasoft.com/ccgrid2010 for program highlights and more conference information.

19-23 July: 
COMPSAC and SAINT 2010

The Internet is evolving into a pervasive and highly distributed ecosystem of connected computers, mobile devices, sensors, home appliances, and a variety of other devices.

The 2010 Symposium on Applications and the Internet and the 2010 IEEE Computer Society Conference on Computer Software and Applications will draw researchers from around the world to share new ideas and findings regarding the Internet, computer software, and their applications. Participants come from a wide spectrum of disciplines in industry, government, and academia.

SAINT organizers have called for papers on topics that include mobile and ad hoc groupware, Internet security architectures, information integration, and universal access and interfacing.

COMPSAC organizers have called for papers that address smart software solutions in diverse areas including healthcare, energy, society, environment, and industry.


Proceedings from many conferences are available through the Computer Society Digital Library. IEEE Computer Society members also enjoy as much as a 25 percent discount on registration fees at Society-sponsored conferences. See www.computer.org for complete details on all IEEE Computer Society publications, conferences, symposia, technical meetings, volunteer opportunities, and other activities.
Society Publications Seek Volunteers for 2011-2012 Editor in Chief Terms

The IEEE Computer Society seeks applicants for the position of editor in chief, serving a two-year term starting 1 January 2011. Prospective candidates are asked to provide (as PDF files) by 1 March a complete curriculum vitae, a brief plan for the publication’s future, and a letter of support from their institution or employer. For more information on the search process and to submit application materials for the following titles, please contact:

MAGAZINES
Computer: Jenny Stout, jstout@computer.org
IEEE Internet Computing: Jenny Stout, jstout@computer.org
IEEE Micro: Robin Baldwin, rbaldwin@computer.org
IEEE Software: Jenny Stout, jstout@computer.org
IEEE Security & Privacy: Jenny Stout, jstout@computer.org

TRANSACTIONS
For more information on the search process and to submit application materials for the following titles, please contact Kathy Santa Maria, ksantama@computer.org:
IEEE Transactions on Computers
IEEE Transactions on Visualization and Computer Graphics

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 the 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.

REAPPOINTMENTS
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 2011-2012 are:

- Isabel Beichl, Computing in Science & Engineering
- Fei-Yue Wang, IEEE Intelligent Systems
- Beng Chin Ooi, IEEE Transactions on Knowledge & Data Engineering
- Ramin Zabih, IEEE Transactions on Pattern Analysis & Machine Intelligence
- Liang-Jie Zhang, IEEE Transactions on Services Computing

For magazines, send comments to Robin Baldwin, rbaldwin@computer.org. For transactions, send comments to Kathy Santa Maria, ksantama@computer.org.

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