

PROFESSION

KNOWLEDGE

COMMUNITY

# IEEE COMPUTER SOCIETY 2010 MEMBER RESOURCE GUIDE



# ABOUT THE IEEE COMPUTER SOCIETY



## THE WORLD'S LEADING ORGANIZATION OF COMPUTING PROFESSIONALS

Founded in 1946, the IEEE Computer Society is dedicated to advancing the theory and application of computer and information technology. With nearly 85,000 members from every field in the profession, the Computer Society serves the information and career development needs of computing researchers and practitioners worldwide with technical journals, magazines, conferences, books, conference publications, and online courses. As a benefit of membership, Computer Society members receive a subscription to *Computer*, the flagship publication of the Society, and have free access to 600 online books from top publishers such as O'Reilly Media and 3,000 technical and business online courses in multiple languages.

IEEE Computer Society Digital Library (CSDL) offers access to over 3,500 conference publication and all 27 periodicals published by the Computer Society, including the complete archives. CSDL is an excellent value for members, providing all print publications of the Computer Society for one low rate.

The Computer Society Conference Publishing Services produces more than 2,000 conference publications, authored books, online tutorials, CD-ROMs, multimedia, and additional electronic products each year. CS Press Books also publishes full-length technical books on cutting-edge topics through a partnership with John Wiley & Sons.

The Certified Software Development Professional (CSDP) program for mid-career professionals and Certified Software Development Associate (CSDA) credential for recent college graduates confirm the skill and knowledge of those working in the field. Known worldwide for its standards, the Computer Society promotes an active exchange of ideas and technological innovation among its members.

With about 40% of members living and working outside the United States, the Computer Society fosters international communication, cooperation, and information exchange. The Society monitors and evaluates curriculum accreditation guidelines through its ties with the U.S. Computing Sciences Accreditation Board and the Accreditation Board for Engineering and Technology.

Based in Washington, DC, the Computer Society operates offices in Tokyo, Japan and Los Alamitos, CA.



## THE IEEE AND OUR SOCIETY RELATIONSHIP

IEEE Computer Society is the largest of 38 societies within the IEEE. You may choose to be a member of the Computer Society only, or you may join both IEEE and the Computer Society. Founded in 1884 by a handful of innovators in electrical engineering, today IEEE is the world's leading professional association for the advancement of technology, with over 375,000 members in more than 160 countries.

For information about IEEE membership, please visit [www.ieee.org](http://www.ieee.org)



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# GETTING STARTED



## CONTACT INFORMATION

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2-14-14 Minami-Aoyama  
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### BEIJING OFFICE

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Room 1503, South Tower, Raycom Info Tech Park C  
No. 2 Kexueyuan South Road  
Haidian District, Beijing 100080 China  
Phone: + 86 10 8286 2035  
Fax: + 86 10 8286 2135  
E-mail: [n.hua@ieee.org](mailto:n.hua@ieee.org)

### FOR ADDRESS CHANGES AND MISSING JOURNAL ISSUES

IEEE  
445 Hoes Lane  
P.O. Box 1331  
Piscataway, NJ 00885-1331  
Phone: +1 800 678 4333 or +1 732 981 0060  
Email: [member-services@ieee.org](mailto:member-services@ieee.org)

UPDATE YOUR MEMBER PROFILE AT [www.ieee.org/membership](http://www.ieee.org/membership)

### FOR CONFERENCE INQUIRIES OR REGISTRATION

E-mail: [tmrf@computer.org](mailto:tmrf@computer.org)

[www.computer.org/conferences](http://www.computer.org/conferences)



# GETTING STARTED



## IEEE WEB ACCOUNT

An IEEE Web Account is a username and password of your choice that allows you to access online benefits and services. With your IEEE Web Account, you can access the full text of *Computer*, sign up for a free computer.org e-mail alias, take courses in the e-Learning Campus, and more.

Your IEEE Web Account allows you to easily update your personal information, manage your membership, and personalize your experience.

NOTE: If your membership application was mailed or faxed, you will need to contact IEEE Computer Society Customer Service for instructions on how to retrieve your Web Account (see page 4 for contact information in the California Office).



## E-MAIL ALIAS SERVICE

Set up a prestigious e-mail alias of [YourName@computer.org](mailto:YourName@computer.org). Your computer.org address is an alias that forwards your e-mail to your personal address and is valid as long as you are a member. If you change employers or Internet providers, simply modify your forwarding information online. Create your own email alias today at [www.computer.org/webaccounts/alias.htm](http://www.computer.org/webaccounts/alias.htm)



## COMPUTER MAGAZINE



Your membership includes a subscription to *Computer*—your resource for keeping up with the industry's exciting new developments.

Written by leading experts, this award-winning magazine features cutting-edge research along with overviews of different industry segments. You also get a strong perspective on the industry as a whole, coupled with in-depth technical expertise on the best computing practices. *Computer* includes regular columns on technology news, industry trends, job listings, and more. In addition to print issues from the current year, you also get online access to the complete archives.

Go green and choose to get *Computer* as a Digital Edition. This environmentally friendly option means you only receive the online, and not the print version, of *Computer*. To elect to receive the Digital Edition, call IEEE Contact Center at +1 800 678 4333.

Preview *Computer* at [www.computer.org/computer](http://www.computer.org/computer)



# INFORMATION AND RESEARCH



## IEEE COMPUTER SOCIETY WEBSITE



IEEE Computer Society website has been recently redesigned to provide easier navigation and quicker access to information and member services. The website is your one-stop resource for the latest news about computing technology as well as Society products, activities, and events. Read *Computer* online, get career information, read selected articles of Society publications, and discover a broad range of information about technical committees, standards, conferences, and much more.

[www.computer.org](http://www.computer.org)—your complete connection to IEEE Computer Society



## IEEE COMPUTER SOCIETY NEWSLETTERS

**Build Your Career**—Get the latest career development news, job listings, and education and job trends advice to help you navigate today's software engineering, computer architecture, information security, and technology fields. (twice monthly)

**Certification Connection**—Keep up to date with fresh developments in the Computer Society's certification and training programs with this newsletter, designed for current and future holders of the Certified Software Development Associate and Certified Software Development Professional credentials. (monthly)

**Computing Now** - Be alerted when the latest multimedia, community-building tools, and peer-reviewed articles are posted to Computing Now, a website that aggregates content from the Computer Society's 13 technical magazines. (twice monthly)

**Member Connection**— Stay informed and involved with the Member Connection, designed to keep you up to date on member benefits, who's winning the awards, which standards are coming to fruition, what local chapters are planning, and what actions officers and executives are taking to improve the Society. (monthly)

**What's New in the CSDL**— Be the first to know when new articles appear in the Computer Society Digital Library (CSDL) with this useful and user-friendly newsletter. Includes new articles from magazines, transactions, and conference proceedings. (monthly)

[www.computer.org/newsletters](http://www.computer.org/newsletters)



# INFORMATION AND RESEARCH



## IEEE COMPUTER SOCIETY DIGITAL LIBRARY

IEEE Computer Society Digital Library (CSDL) is the premier collection of computing periodicals and conference publications. Use the CSDL to perform research, solve a problem, or discover an innovative new approach in your area of expertise.

As a member, you can subscribe to the CSDL at a special low rate, giving you unlimited online access to one of the largest sources of computing information available. Your subscription includes

- All 27 Computer Society peer-reviewed periodicals with full archives, covering the spectrum of computing—software development, bioinformatics, visualization and design, security, and more! Individual title descriptions appear in this Resource Guide
- 3,500+ conference publications from around the globe, with new titles added weekly
- 325,000+ articles and papers covering almost every topic in the computing field.

To subscribe to the Computer Society Digital Library, go to [www.computer.org/subscribe](http://www.computer.org/subscribe)



## IEEE COMPUTER SOCIETY PERIODICALS

IEEE Computer Society publishes numerous specialized magazines and journals, which are available to members at ultra-low subscription rates—as much as 50% off the prices nonmembers pay. Members get print issues plus online access to the archives for the titles selected. Subscribe to the periodicals in your area of expertise at

[www.computer.org/subscribe](http://www.computer.org/subscribe)



## ARTIFICIAL INTELLIGENCE

### IEEE INTELLIGENT SYSTEMS

Gives you current practices and promising new ideas for Semantic Web Services, artificial intelligence, data mining, intelligent agents, human-centered computing, intelligent transportation systems, robotics, and wearable AI. (bimonthly)

### IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE

Topics covered include statistical and structural pattern recognition, image analysis, artificial intelligence, knowledge representation, biometrics, clustering, face and gesture recognition, computer vision, and machine learning. (monthly)





Receive the latest research results on algorithmic, mathematical, statistical, and computational methods that are central in bioinformatics and computational biology, as well as proteomics, functional genomics, and important biological results that are obtained from the use of these methods, programs, and databases. (quarterly)



A peer-reviewed forum for publishing early, high-impact results in the areas of uni- and multiprocessor computer systems, computer architecture, microarchitecture, workload characterization, performance evaluation and simulation techniques, and power-aware computing. (biannually)

Features the latest methods used to design and test electronic-products hardware and supportive software. Topics covered include circuit and system testing, deep-submicron technology, electronic design automation, embedded systems, formal and functional verification, systems on chips, and design for testability. (bimonthly)

An international audience of microcomputer and microprocessor designers, system integrators, and users rely on *IEEE Micro* to increase their technical knowledge of computers and peripherals, semiconductors, embedded systems, communications hardware, application-specific processors, power consumption, memory performance, and more. Also includes regular coverage of microarchitecture economic and legal issues. (bimonthly)

Widely used by researchers, developers, and educators to keep up-to-date on issues such as computer organizations and architectures, operating and software systems, performance, fault tolerance, specification, design, prototyping, and testing. Also includes case studies, new applications, and trends. (monthly)





# AND RESEARCH



## GRAPHICS & MULTIMEDIA

### IEEE COMPUTER GRAPHICS AND APPLICATIONS

An indispensable resource for those working at the leading edge of computer graphics technology and its applications, including 3D graphics, visualization, CAD/CAM, digital media, and virtual reality. Recent coverage has included real-time interaction with complex models, computational aesthetics, procedural methods for urban modeling, and mobile graphics. (bimonthly)

### IEEE MULTIMEDIA

This valuable resource covers both technical and creative innovations within multimedia systems and applications. Topics include Web-based multimedia, content protection and security, standards, media processing and authoring tools, mobile multimedia, indexing and integration, interactive and experiential computing, immersive and virtual environments, pervasive media services, and multimodal biometrics. (quarterly)

### IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS

Get important research results and seminal papers on computer graphics and visualization. Topics covered include techniques, systems, software, hardware, user interface issues, and rendering techniques and methodologies. Coverage also includes flow visualization and analysis; virtual, augmented, and mixed reality; animation and simulation; perception, human computer interaction, and user interfaces; and graphics aspects of computer games and edutainment. (bimonthly)



## HISTORY OF COMPUTING

### IEEE ANNALS OF THE HISTORY OF COMPUTING

From the analytical engine to the supercomputer, from Pascal to von Neumann, from punched cards to CD-ROMs, from pre-Internet computing to PC software—discover the secrets to the most successful projects in computing history. Every issue features scholarly articles by leading computer scientists and historians, as well as firsthand accounts by computing pioneers. (quarterly)



## HUMAN-CENTERED COMPUTING

### NEW! IEEE TRANSACTIONS ON AFFECTIVE COMPUTING

Launching in 2010, this cross-disciplinary journal will disseminate research that explains why and how affective factors influence interaction between humans and technology; how affective sensing and simulation techniques can inform our understanding of human affective processes; and the design, implementation, and evaluation of systems that consider affect as a factor that influences their usability. (semiannually in 2010, quarterly in 2011)

### IEEE TRANSACTIONS ON HAPTICS

Addresses the science, technology, and applications associated with information acquisition and object manipulation through touch. Covers all aspects of manual exploration and manipulation of machines by humans and interactions between the two, performed in real, virtual, teleoperated and networked environments. (quarterly)





## INTERNET & DATA TECHNOLOGIES

### IEEE INTERNET COMPUTING

If you are a designer or developer of Internet-based applications or a high-end user looking to make the most of the Web, *IEEE Internet Computing* is your one-stop resource for information on wireless networking, middleware, Semantic Web technologies, Web services, applying standards, and much more. (bimonthly)

### IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING

Publishes information designed to inform researchers, developers, managers, strategic planners, users, and others interested in state-of-the-art and state-of-the-practice activities in the knowledge and data engineering area. Gain insight into topics such as data mining methods, outlier detection, personalization, spatial and temporal data mining, machine learning, data and knowledge visualization and representation, Web mining, computational platforms, and emerging applications. (monthly)

### IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES

Get access to archival research and original critical surveys on advances in online learning systems, intelligent tutors, educational software applications and games, collaborative learning tools, and similar learning technologies. (quarterly—online only)

### IEEE TRANSACTIONS ON SERVICES COMPUTING

Services computing is a unique cross-discipline that leverages IT and computing technology to model, create, and manage business solutions, scientific applications, and modernized services. This publication emphasizes the algorithmic mathematical, statistical and computational methods that are central in services computing. Includes service oriented architecture, Web services, business process integration, solution performance, management services operations, and management. (quarterly-online only)



## IT & SECURITY

### IT PROFESSIONAL

Gives builders and managers of enterprise systems the essential articles to inform their practical and strategic choices on issues surrounding enterprise architecture and standards, information systems, networks, programming languages, project management, training and education, wireless applications, and other vital IT topics. (bimonthly)

### IEEE SECURITY & PRIVACY

Top security experts show you how to secure your networks and operating systems, identify and thwart Internet attacks, and improve wireless and software security. Topics covered include enterprise security management, identity theft, legislative actions, malware, access control, Web applications security, and security and privacy policies. (bimonthly)

### IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING

The expectation that modern computing systems be highly available and secure despite accidental failures and malicious attacks is a major challenge. This journal provides the latest research on architecture for secure systems, intrusion detection and recovery, firewall and network technologies, safety-critical systems, system management and administration, cryptology techniques, key management and use of COTS techniques. (quarterly)



# AND RESEARCH



## MOBILE COMPUTING

### IEEE PERVASIVE COMPUTING

This multidisciplinary magazine brings together experts in hardware, software, physical-world interaction, human-computer integration, and systems deployment for pervasive and mobile computing technologies. Topics covered include handheld and wearable computers, user interface technologies, mobile services, RFID, sensor networks, energy harvesting, and more. (quarterly)

### IEEE TRANSACTIONS ON MOBILE COMPUTING

This popular journal focuses on technology for mobile networks and architectures, wireless systems, power management, multi-user/multi-access techniques, wearable computers, and mobile agents and proxies. Readers will find issues related to security, reliability, and performance in mobile systems and environments. (monthly)



## NETWORKING

### IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS

Get to the heart of parallel and distributed networking with research on the design, analysis, and implementation of multiple-processor systems. Other topics include parallel processing, distributed systems, cache memories, communication system routing, resource management, reliability, and fault tolerance. (monthly)



## SCIENTIFIC COMPUTATION

### COMPUTING IN SCIENCE & ENGINEERING

Hard sciences such as physics, medicine, and astronomy share a common need for efficient algorithms, systems software, and computer architectures to address large computational problems. This technical magazine bridges these interdisciplinary fields and delivers an accessible forum for research that emphasizes applications in science and engineering, numerical and symbolic algorithms, practical visualizations, computer simulations, and scientific programming. (bimonthly)



## SOFTWARE

### IEEE SOFTWARE

As the authority on translating software theory into practice, this publication delivers reliable, useful, leading-edge software development information to keep engineers and managers abreast of rapid technology change. Get expert advice on software architecture, design, project management, quality, testing, functional and dynamic languages, agile processes, lean development, and great new tools. (bimonthly)

### IEEE TRANSACTIONS ON SOFTWARE ENGINEERING

For more than 30 years, this journal has delivered groundbreaking research results on the construction, analysis, and management of software. Topics covered include development and maintenance methods, software tests and validation, cost models, organizational issues, tools and environments, and hardware-software trade-off issues. (bimonthly)



# INFORMATION AND RESEARCH



## IEEE COMPUTER SOCIETY STORE

Browse our book titles co-published with John Wiley & Sons, proceedings from the hundreds of conferences we sponsor each year, and tutorials edited by leading experts in the field. Significant member discounts are available for most products.

See all available products and publications and order online at [www.computer.org/csstore](http://www.computer.org/csstore)



## IEEE COMPUTER SOCIETY PRESS

IEEE Computer Society Press publishes, promotes, and distributes a wide variety of authoritative computer science and engineering books, practical chapter-sized PDF downloads (ReadyNotes), and professionally curated collections from the Computer Society Digital Library (TechSets). All CS Press publications are peer reviewed to ensure that they meet the highest possible standards for quality and technical accuracy.

Learn more about Computer Society Press at [www.computer.org/cspress](http://www.computer.org/cspress)

## IEEE READYNOTES

These guidebooks and tutorials serve as quick-start references for busy computing professionals. IEEE ReadyNotes includes topics such as software engineering, 3D graphics tools, and databases. Some of the best-selling titles include

- *A Practical Metrics and Measurements Guide for Today's Software Project Manager*
- *Risk Management for Software Projects*
- *A Survey of 3D Graphics Software Tools*
- *Designing and Implementing Softcoded Values*
- *Designing Databases with Object-Oriented Methods*
- *Digital Avionics: A Computing Perspective*
- *Evaluating the Performance of Software Engineering Professionals*
- *Global Software Engineering*
- *IEEE Software Engineering Standards Support for ISO 9001: Getting Your Organization Started*
- *IEEE Software Engineering Standards Support for the CMMI Project Planning Process Area*
- *Introduction to Python for Artificial Intelligence*
- *The Poor Person's Guide to Estimating Software Development Costs*



## CONFERENCE PUBLISHING SERVICES

IEEE Computer Society Conference Publishing Services (CPS) produces high quality, peer-reviewed conference publications in print, CD-ROM and online products. Our goal is to make the publishing process as effortless as possible for both organizers and authors. CPS Online, an IEEE online collaborative publishing environment, allows conference organizers to interact with their CPS editor through a variety of online databases, documents, folders and communications tools and is designed to facilitate the publishing process.

Complete information can be found at [www.computer.org/proceedings](http://www.computer.org/proceedings)



# CAREER DEVELOPMENT



## SAFARI® BOOKS ONLINE



Access 600 titles from Safari® Books Online, featuring technical and business books from top publishers such as O'Reilly Media, Peachpit, Addison Wesley, Prentice Hall, FT Press, IBM Press, Microsoft Press, Cisco Press, Adobe Press, and more. This important member benefit gives you quick and convenient access to reliable information whenever you need it.

Search across the extensive electronic library to learn about the newest technologies and latest advances in the field. Locate and extract information from hundreds of books simultaneously with Safari's powerful search engine. Read an entire book online or go directly to a particular section to get the solutions you need.



## ONLINE TECHNICAL AND BUSINESS COURSES

Members have access to 3,000 self-paced courses powered by Element K®, a leading provider of e-learning solutions for business and technology skills. These courses represent over 10,000 hours of training and can help you prepare for a number of industry standard certifications including Microsoft, Cisco, Sun, IT security, and project management. In addition, courses are available in multiple languages.

You get convenient, high-quality courses on a wide variety of topics such as

- TCP/IP Introduction and Advanced
- Managing Projects, 2nd Edition
- Certified Ethical Hacker: Additional Hacking Tools
- C++ Programming: Introduction
- Cisco CCNA 1.2 Interconnecting Cisco Network Devices (ICND)
- .NET Framework: Introduction
- Applying Leadership Basics, 2nd Edition



## BRAINBENCH® EXAMS

Computer Society members also get access to a suite of Brainbench® certification exams. By completing these exams, you can validate your subject area knowledge for yourself and your employer.



## IT REFERENCES AND TECHNICAL ARTICLES

Enhance your work and find solutions with 500 full-text books and quick-answer technical articles from Element K®. Use the online books to develop advanced skills in a specific tool or application. Use the technical articles for tips, tricks, and immediate answers to your IT questions.

Discover more about these career development resources at the e-Learning Campus.

[www.computer.org/elearning](http://www.computer.org/elearning)



# CAREER DEVELOPMENT



The Certified Software Development Associate (CSDA) was developed in response to requests from industry for a way to confirm the skill and knowledge levels of those just entering the software field. The CSDA validates an individual's knowledge of the foundations of computer science, mathematics, and engineering and builds proficiency of established software development practices.

Recognizing the importance of continuing education in today's software development environment, the Certified Software Development Professional (CSDP) designation was created to provide experienced software development professionals with a respected credential that demonstrates their competence.

These credentials are important both to career development and to the industry, as they can help employers build a more disciplined approach to software development practices.

## KEY BENEFITS OF CSDA CERTIFICATION

- Verifies your understanding of fundamental software development practices that you can build upon and advance your career
- Bridges the gap between your educational experience and real-world work requirements
- Shortens your training cycle and quickly increases your contribution
- Demonstrates your commitment and level of professionalism

## KEY BENEFITS OF CSDP CERTIFICATION

- Demonstrates your proficiency of established software development practices
- Shows your commitment to expanding your knowledge and taking on increasing responsibilities
- Differentiates between you and others in a field that has multiple credentials, but only one that was developed by, for, and with software development professionals

Members receive significant discounts on e-learning preparation courses and examination fees. For more information, visit [www.computer.org/getcertified](http://www.computer.org/getcertified)



Both credentials are based on the Software Engineering Body of Knowledge (SWEBOK), making them internationally-accepted and portable worldwide. For more information, visit <http://swebok.org>



# CAREER DEVELOPMENT



## IEEE COMPUTER SOCIETY CAREER CENTER

Post your resume or job and reach over 125,000 specialized computer science professionals and experienced top-level managers in software engineering, CAD/CAM/CAE, computational physics, computer modeling and simulation, and other related fields worldwide.

IEEE Computer Society Career Center strives to connect quality candidates with the best computer science and engineering jobs.

### Looking to be hired? Job seekers can

- Store multiple copies of your resume
- Set up job alerts to notify you of new jobs
- Apply to jobs directly online
- Search for jobs by keyword, location, or experience

### Looking to hire? Employers can

- Advertise in *Computer* magazine (print and online)
- Receive resumes online or direct job seekers to your own website
- Track relevant job statistics online
- Create automatic resume alerts

For complete information and to post or view resumes, go to <http://careers.computer.org>



## LOCAL CHAPTERS

IEEE Computer Society members organize locally to support their professional development, network, and exchange information. Become a member of your local chapter and learn from the experiences of fellow professionals and students in your region. There are over 300 professional and student chapters worldwide. Get more information and locate your local chapter at [www.computer.org/chapters](http://www.computer.org/chapters)



## STUDENT CLUBS

IEEE Computer Society Student Clubs are designed for schools that do not meet the requirements for forming a student chapter. Student Clubs can be formed with as few as four members. Get more information now at [www.computer.org/chapter/clubs](http://www.computer.org/chapter/clubs)



## EDUCATIONAL ACTIVITIES

IEEE Computer Society supports educational activities in computer science at all levels. Specific areas of focus include curriculum development, accreditation, continuing education, and pre-college activities. For more information, visit [www.computer.org/education](http://www.computer.org/education)



# TECHNICAL RESOURCES



## ACCESS TO FREE DEVELOPMENT SOFTWARE FROM MICROSOFT FOR STUDENT MEMBERS



All students who join IEEE Computer Society will automatically be eligible to select and download software through the MSDN Academic Alliance. Available software includes

- Visual Studio Team System—Microsoft's "top of the line" professional development tool!
- Vista Business Edition
- Expression Web Designer
- OneNote 2007
- Project 2007
- Visio 2007

To view the entire list of software available to IEEE Computer Society student members, go to [http://msdn04.e-academy.com/elms/Storefront/Storefront.aspx?campus=ieee\\_cs\\_r9](http://msdn04.e-academy.com/elms/Storefront/Storefront.aspx?campus=ieee_cs_r9)

**An MSDN user account with login information will be e-mailed upon acceptance of an IEEE Computer Society application for student membership.**

One software license per student membership is allowed each year of active IEEE Computer Society student membership. Students can obtain this software—including updates to the latest version—as long as they are active IEEE Computer Society members. Please note: Microsoft makes this offer available in most countries. However, some countries are excluded due to U.S. government export control regulations.



## CONFERENCES, SYMPOSIA, AND WORKSHOPS

IEEE Computer Society sponsors or cosponsors more than 200 conferences each year. As a member, you receive a 25% discount on registration fees. Conferences include topic areas such as

- Computer Architecture
- Pattern Analysis and Machine Intelligence
- Security and Privacy
- Software Engineering
- Visualization and Graphics

To view a calendar of upcoming conferences, meetings, and symposia and to register, go to [www.computer.org/conferences](http://www.computer.org/conferences)



# TECHNICAL RESOURCES



## TECHNICAL COMMITTEES, COUNCILS AND TASK FORCES

IEEE Computer Society has more than 40 Technical Committees, Councils, and Task Forces (collectively referred to as TCs) where members network with colleagues and help drive the Society's conferences, publications, and standards activities.

To learn more about Technical Committees, Councils, and Task Forces, visit [www.computer.org/tab](http://www.computer.org/tab)



### TECHNICAL COUNCILS

- Software Engineering
- Test Technology



### TECHNICAL COMMITTEES

- Autonomous and Autonomic Systems
- Bioinformatics
- Complexity in Computing
- Computational Medicine
- Computer Architecture
- Computer Communications
- Computer Elements
- Computer Generated Music
- Computer Languages
- Data Engineering
- Dependable Computing & Fault Tolerance
- Design Automation
- Digital Libraries
- Distributed Processing
- E Commerce
- Engineering of Computer Based Systems
- Haptics
- Human Centered Computing
- Intelligent Informatics
- Internet
- Learning Technology
- Mass Storage Systems
- Mathematical Foundations of Computing
- Microprocessors and Microcomputers
- Microprogramming and Microarchitecture
- Multimedia Computing
- Multiple Valued Logic
- Nanoelectronics, Nanoarchitectures, and Nanocomputing

- Operating Systems and Application Environments
- Parallel Processing
- Pattern Analysis and Machine Intelligence
- Real-Time Systems
- Scalable Computing
- Security and Privacy
- Services Computing
- Simulation
- Sustainable Systems and Technology
- Systems Packaging
- Visualization and Graphics
- VLSI
- Wearable Information Systems



### TASK FORCES

- Embedded System Codesign
- Game Technology
- Information Assurance



# TECHNICAL RESOURCES



## STANDARDS COMMITTEES AND WORKING GROUPS

IEEE Computer Society is a leader in developing standards with significant impact on the computing industry such as IEEE 802.11, Firewire, and Gigabit Ethernet. There are more than 150 Standards Working Groups related to 11 Standards Committees.

Influence the direction of standards activities and keep your employer informed of market directions. Detailed information on specific Standards Committees and Working Groups is located at [www.computer.org/standards](http://www.computer.org/standards)



## STANDARDS COMMITTEES

- Design Automation Standards Committee P&P
- Foundation for Intelligent Physical Agents P&P
- Information Assurance Standards Committee P&P
- Learning Technology Standards Committee P&P
- Local Area Networks/MAN Standards Committee (802) P&P (Unapproved P&P)
- Microprocessor Standards Committee P&P
- Portable Applications Standards Committee P&P (Unapproved P&P)
- Simulation Interoperability Organization/SAC P&P
- Software & Systems Engineering Standards Committee P&P (Joining S2ESC)
- Storage Systems Standards Committee P&P (Unapproved P&P)
- Test Technology Standards Committee P&P (Unapproved P&P)



## SAB SPONSORED PROJECTS (SAB AS SPONSOR P&P)

- P2407 Architecture Framework and Reference Model for Personalized Health Informatics
- Games Technology Standards
- Musical Applications Using XML



# AWARDS, SCHOLARSHIPS, AND VOLUNTEERING



## AWARDS

To recognize members for their outstanding achievements, the IEEE Computer Society sponsors an active and prestigious awards program. The awards honor technical achievements as well as service to the profession and the society. Entrepreneurial leaders and managers responsible for growth of the computer industry, like past recipients Bill Gates and Andy Grove, are eligible for the Computer Entrepreneurial Award.

IEEE Computer Society also rewards its volunteers with Certificates of Appreciation, Outstanding Contribution awards, and other service awards. Download nomination forms and get details about all award opportunities at [www.computer.org/awards](http://www.computer.org/awards)



## SCHOLARSHIPS

Student members can apply for over 30 scholarships, fellowships, and awards as well as hundreds of conference travel grants. These scholarships and awards recognize student chapter leaders, high academic achievement, and even include a contest for the best student papers on computer-related subjects.

Apply for scholarships at [www.computer.org/students](http://www.computer.org/students) and [www.ieee.org/scholarships](http://www.ieee.org/scholarships)



## VOLUNTEERING

Volunteer leadership is vital to the success of the IEEE Computer Society. Our volunteers influence our publications, conferences, technical committees, and nearly every aspect of the Society. Become a local arrangements chair for a conference in your region, review a paper submitted for publication in a Society periodical, or write a short piece for a Technical Committee newsletter. There are many ways to make a mark on your career and the future of computing. Find out more at [www.computer.org/getinvolved](http://www.computer.org/getinvolved)





# QUICK LINKS TO IEEE COMPUTER SOCIETY RESOURCES

## PUBLICATIONS, PRODUCTS, AND SERVICES

IEEE Computer Society home page

*Computer* magazine

e-Learning Campus

IEEE Computer Society Digital Library

Periodical information

IEEE Computer Society Press

Conference publications

IEEE Computer Society Store

Certified Software Development Professional (CSDP)

Certified Software Development Associate (CSDA)

[www.computer.org](http://www.computer.org)

[www.computer.org/computer](http://www.computer.org/computer)

[www.computer.org/elearning](http://www.computer.org/elearning)

[www.computer.org/csdl](http://www.computer.org/csdl)

[www.computer.org/publications](http://www.computer.org/publications)

[www.computer.org/cspress](http://www.computer.org/cspress)

[www.computer.org/proceedings](http://www.computer.org/proceedings)

[www.computer.org/csstore](http://www.computer.org/csstore)

[www.computer.org/certification](http://www.computer.org/certification)

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## MEMBER SERVICES

Membership information and applications

Membership Frequently Asked Questions

IEEE Web Account

YourName@computer.org e-mail alias service

[www.computer.org/join](http://www.computer.org/join)

[www.computer.org/join/faq.htm](http://www.computer.org/join/faq.htm)

[www.computer.org/webaccounts](http://www.computer.org/webaccounts)

[www.computer.org/webaccounts/alias.htm](http://www.computer.org/webaccounts/alias.htm)

## MEETINGS AND ACTIVITIES

Conferences

Technical Committees

Standards Working Groups

Chapters and Student Clubs

Student Activities

Educational Activities

Awards

[www.computer.org/conferences](http://www.computer.org/conferences)

[www.computer.org/tab](http://www.computer.org/tab)

[www.computer.org/standards](http://www.computer.org/standards)

[www.computer.org/chapters](http://www.computer.org/chapters)

[www.computer.org/students](http://www.computer.org/students)

[www.computer.org/education](http://www.computer.org/education)

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Tell us about . . .

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Which products and services do you value least?

What topics/areas of computing interest you the most?

Which e-learning courses do you value most?

What other e-learning learning courses/topics do you want in the future?

Send your feedback and comments to [membervalue@computer.org](mailto:membervalue@computer.org).

