

# 2006 IEEE COMPUTER SOCIETY REPORT TO THE IFIP GENERAL ASSEMBLY

## Part I — Review of Activities

In 2006 we are celebrating a year of jubilee for the electronic computer, the 60<sup>th</sup> anniversary of the ENIAC computer, and the 60<sup>th</sup> anniversary of the IEEE Computer Society. A number of celebratory events have been planned. For details, please visit: [www.computer.org/60thAnniversary](http://www.computer.org/60thAnniversary)

Here is an update of our major programs:

### IEEE Computer Society Online Bookshelf

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

Members continue to get access to a special online collection of unabridged books on variety of technology topics such as Java, project management, .NET, security, and Web services. The *IEEE Computer Society Online Bookshelf* is powered by Books24x7, a leading provider of online books and reference works.

Access to this rotating collection of 300 books, the *IEEE Computer Society Online Bookshelf*, is a free benefit of membership. IEEE Computer Society members also may purchase access to an 800-book and 4,000-book collection at special rates.

### IEEE Computer Society Digital Library

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

2006 enhancements to the digital library include:

- \* Expanding the archives for periodicals from 1987 back to first issues
- \* XML gateways
- \* Search upgrade
- \* Clickable math
- \* Web specific content including podcasts and blogs

### IEEE Computer Society Distance Learning Campus

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

The IEEE Computer Society Distance Learning Campus provides free access to 800 course modules in dozens of subjects such as Java, Cisco, XML, Oracle, and Microsoft technologies. It is powered by Thomson NETg, a recognized leader in eLearning services.

### Certified Software Development Professional (CSDP)

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

More than 575 people have completed the CSDP exam and have received the CSDP credential. The next exam period begins on 1 September 2006. The number of testing sites continues to expand.

### **CSIDC 2006**

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

Teams from all over the world vied for thousands of dollars in prize and scholarship money in the Seventh Annual IEEE Computer Society International Design Competition (CSIDC). The competition gives undergraduate students an opportunity to develop a substantial project that mimics a real-world design life cycle and culminates in a live demonstration of student-developed prototypes. The first place award in 2006 went to North Carolina State University for their “SunRay” project. CSIDC is sponsored by Microsoft.

### **IEEE ReadyNotes**

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

The IEEE Computer Society launched a new product in 2006 called IEEE ReadyNotes. IEEE ReadyNotes are guidebooks and tutorials that serve as a quick-start reference for busy computing professionals. IEEE ReadyNotes are available as downloadable PDF files and cost \$19 US each.

### **Governance**

The Society’s 2006 Executive Committee members are:

- Deborah M. Cooper, 2006 President
- Michael R. Williams, President-Elect
- Gerald L. Engel, Past President
- Rangachar Kasturi, First Vice President, Conferences & Tutorials
- Susan K. (Kathy) Land, Second Vice President, Standards Activities
- Christina M. Schober, Vice President, Chapters Activities
- Murali R. Varanasi, Vice President, Educational Activities
- Sorel Reisman, Vice President, Electronic Products & Services
- Jon Rokne, Vice President, Publications
- Stephanie M. White, Vice President, Technical Activities
- Stephen B. Seidman, Treasurer
- Ann Q. Gates, Secretary
- Stephen L. Diamond, 2005-2006 IEEE Division VIII Director
- Thomas W. Williams, 2006 IEEE Division VIII Director-Elect
- Oscar N. Garcia, 2006-2007 IEEE Division V Director
- Doris L. Carver, Computer Editor-in-Chief
- David W. Hennage, Executive Director

The Computer Society Board of Governors consists of the executive committee and 21 elected governors. Current governors (by term expiration date) are:

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<i>Term Expires 2006</i>	<i>Term Expires 2007</i>	<i>Term Expires 2008</i>
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Mark Christensen	Jean M. Bacon	Richard H. Eckhouse
Alan Clements	George V. Cybenko	James D. Isaak
Robert P. Colwell	Antonio Doria	James W. Moore
Annie Combelles	Richard A. Kemmerer	Gary McGraw
Ann Q. Gates	Itaru Mimura	Robert H. Sloan
Rohit Kapur	Brian M. O'Connell	Makoto Takizawa
Bill N. Schilit	Christina M. Schober	Stephanie M. White

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Descriptions of the major boards and other Society activities can be found on our Web site at <http://computer.org/>.

The Society's awards program continues to honor technical achievements and innovations, education, entrepreneurial leaders in the computer industry, and service to the computer profession and to the society. New in 2007 is the 60<sup>th</sup> Anniversary Award, which will recognize an individual or individuals who have been responsible for one of the most fundamental and important computer science and engineering contributions over the past century. Recipient(s) of this award will share a \$20,000 honorarium. Visit the society's awards homepage for more information about our awards program and to obtain nomination forms: <http://www.computer.org/awards/>.

The IEEE Computer Society serves more than 100,000 members in over 140 countries through its Headquarters Office in Washington, DC, its Asia/Pacific Office in Tokyo, Japan, and its Publication Office in Los Alamitos, California. The Society also has service centers around the world: the Computer Society Beijing Center and Moscow Center. In Asia/Pacific, the society translated descriptions of its products and services in Japanese and now offers a new introductory page for members and customers in Japan through the Tokyo Office: [http://www.tgi.jp/ieee\\_computer\\_society/](http://www.tgi.jp/ieee_computer_society/)

The Society has several memoranda of understanding (MOU) with national societies around the world. In 2006, the Computer Society signed an agreement with the Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA) and the Bangladesh Computer Society (BCS). The Computer Society renewed a cooperative agreement with the Institute of System Programming of the Russian Academy of Sciences.

The Society is proud to have a role in the worldwide computing profession as a full member of the International Federation for Information Processing (IFIP). The organizations co-sponsor several conferences including:

- International Conference on Dependable Systems and Networks (DSN)
- 2006 International Conference on Parallel Architecture and Compilation Techniques (PACT)

In addition, IFIP is an in-cooperation partner in:

- 9<sup>th</sup> IEEE International Symposium on Object-oriented Real-time Distributed Computing, ISORC 2006
- 14th IEEE International Requirements Engineering Conference, RE 2006

The Computer Society appointed representatives to the 12 IFIP TCs, as follows:

<i>IFIP TC</i>	<i>TC Name</i>	<i>CS Representative</i>
TC 1	Foundations of Computer Science	Michael Hinchey
TC 2	Software: Theory and Practice	Joseph E. Urban
TC 3	Education	Willis K. King
TC 5	Computer Applications in Technology	Ron Waxman
TC 6	Communications Systems	Arun Iyengar
TC 7	System Modeling and Optimization	Sanjay Ranka
TC 8	Information Systems	Erich J. Neuhold
TC 9	Relationship Between Computers and Society	Gerald L. Engel
TC 10	Computer Systems Technology	Daniel A. Etiemble
TC 11	Security and Protection in Info. Processing Systems	Yves A. Deswarte
TC 12	Artificial Intelligence	Daniel E. O'Leary
TC 13	Human-Computer Interaction	Nahum D. Gershon

## **Part II — Input to IFIP**

As advances in information technology continue to change the way we conduct our work, the need to establish closer relationships with affiliated organizations throughout the world becomes increasingly important. IEEE Computer Society encourages IFIP to reach out and establish these relationships in ways that offer opportunities for IFIP members and others to directly access each other's products and services. Building our network together means building a stronger profession worldwide. Organizations with which Computer Society has formal relationships are found below:

- American Institute of Aeronautics and Astronautics (AIAA)
- American Institute of Physics (AIP)
- American Mathematical Society (AMS)
- Asociación Española de Informática y Automática (AEIA)
- Association for Computing Machinery (ACM)
- Association for Information Systems (AIS)
- Association of Information Technology Professionals (AITP)
- Associazione Italiana per l'Informatica ed il Calcolo Automatico (AICA)
- Australian Computer Society (ACS)
- Bangladesh Computer Society (BCS)
- British Computer Society (BCS)
- China Computer Federation (CCF)
- Chinese Institute of Engineers (CIE)
- Computer Engineering and Application Society of the Chinese Institute of Electronics (CEAS)
- Computer Society of India

- Computer Society of the Republic of China (CSRC)
- Gesellschaft für Informatik (GI)
- Hong Kong Computer Society (HKCS)
- Information Processing Society of Japan (IPSJ)
- Information Systems Technical Society of The Institute of Electronics, Information and Communication Engineers of Japan (IEICE)
- Informationstechnische Gesellschaft im Verband Deutscher Elektrotechniker (VDE/TTG)
- Institute for Operations Research and the Management Sciences (INFORMS)
- Institute of Electrical Engineers of Japan (IEE)
- Institute of Management Accountants (IMA)
- Institute for System Programming, Russian Academy of Sciences (ISP)
- Institution of Electrical Engineers (IEE-UK)
- Instrument Society of America (ISA)
- International Society for Optical Engineering (SPIE)
- Japanese Society for Artificial Intelligence (JSAI)
- Koninklijke VJaamse Ingenieursvereniging (KVIV) (*Royal Society of Flemish Engineers*).
- Korea Information Science Society (KISS)
- Mathematical Association of America (MAA)
- Nederlands Genootschap voor Informatica (NGI) (*Dutch Computer Society*)
- Österreichische Computer Gesellschaft (OCG) (*Austrian Computer Society*)
- Schweizer Informatiker Gesellschaft (SI) (*Swiss group for Artificial Intelligence and Cognitive Science*)
- Singapore Computer Society (SCS)
- Sociedad Chilena de Ciencia de la Computación (SCCC) (*Chilean Computer Science Society*)
- Sociedade Brasileira de Computação (SBC) (*Brazilian Computer Society*)
- Society for Computer Simulation (SCS)
- Society for Industrial and Applied Mathematics (SIAM)
- Society of Automotive Engineers (SAE)