

# ACM

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Association for  
Computing Machinery

*Advancing Computing as a Science & Profession*

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# *ACM Awards Reception & Banquet*



*U.S. Grant Hotel  
San Diego, California  
June 27, 2009*



2008 ACM A.M. Turing Award  
Recipient Barbara H. Liskov  
with (left to right) ACM  
President Professor Dame  
Wendy Hall, Andrew Chien  
of Intel, Alfred Spector of  
Google, and ACM CEO  
John R. White

2008 ACM - Infosys  
Foundation Award in the  
Computing Sciences  
Recipient Jon Kleinberg  
with (left to right) ACM CEO  
John R. White, Raj Joshi of  
Infosys, and ACM President  
Professor Dame Wendy Hall



# ACM AWARDS



## *Introduction*

ACM, the Association for Computing Machinery, is the world's largest educational and scientific computing society. ACM's overarching goal is to advance computing as a science and a profession. A very important part of this goal is to recognize outstanding technical and professional achievements in computing and computer science through our series of awards.

ACM's awards celebrate our long tradition of honoring those whose contributions have impacted our world for the better in countless ways. These prestigious and internationally recognized honors are an integral part of ACM's mission to unite computing educators, researchers, and professionals to inspire dialogue, share resources, and address the field's challenges.

ACM welcomes nominations for candidates whose work exemplifies the best and most influential contributions to our community, and society at large. More information on nominating candidates for future awards is available on page 17 in this booklet.

The awards included in this overview are being presented at the 2010 ACM Awards Banquet on June 26, 2010, at the Westin St. Francis Hotel in San Francisco, California.

More information on ACM's Awards Programs can be found at <http://awards.acm.org/html/awards.cfm>, including links to the full award citations and a downloadable version of this booklet.

## *A.M. Turing Award*



**Charles P. (Chuck) Thacker**

Microsoft Research



The A.M. Turing Award is presented to Charles P. (Chuck) Thacker for his pioneering design and realization of the first modern personal computer—the Alto at Xerox PARC—and seminal inventions and contributions to local area networks (including the Ethernet), multiprocessor workstations, snooping cache coherence protocols, and tablet personal computers.

Thacker is a pioneering architect, inventor, designer, and builder of many of today's key personal computing and network technologies. During the 70s and early 80s at the Xerox Palo Alto Research Center, he designed central systems and was the main pragmatic engineering force behind Alto, the first modern personal computer with a bit-map screen to run graphical user interfaces with WYSIWYG fidelity and interaction. All of today's personal computers with bit-map screens and graphical user interfaces descend directly from the Alto.

This award celebrates the work of one of the founding fathers of modern computer science - Alan Mathison Turing (1912-1954). In a 1936 paper, Turing introduced a precise definition of a computational machine (now called a Turing Machine). He is perhaps best known for his contributions during World War II in cracking the German Enigma code. After the war, he worked on early British computers at the National Physical Laboratory and Manchester University. He later studied problems key to Artificial Intelligence. In his 1950 paper, *Computing Machinery and Intelligence*, he proposed the "Turing Test," which is still applied in attempting to determine whether a computer is intelligent.

Accompanied by a prize of \$250,000, ACM's most prestigious award is given to recognize contributions of a technical nature which are of lasting and major technical importance to the computing field. Financial support of the A.M. Turing Award is provided by the Intel Corporation and Google Inc.

## ACM – Infosys Foundation Award in the Computing Sciences



**Eric A. Brewer**

University of California, Berkeley



The ACM – Infosys Foundation Award in the Computing Sciences is presented to Eric A. Brewer for his design and development of highly scalable internet services and innovations in bringing information technology to developing regions.

Brewer's work on applying many loosely coupled machines to large-scale data-intensive computing problems laid the foundation for the giant datacenters that today underpin all major information technology services - search, email, social networks, mapping and many others - and also enable cloud computing. He showed how to make such computer clusters scalable and fault-tolerant in the Berkeley NoW project, and deployed them at scale in the Inktomi search engine. Later he proposed the CAP theorem, which is now fundamental to the design of large-scale systems: out of Consistency, Availability, and Partition tolerance, you can have two but not all three. His recent work on technology for developing regions has had remarkable success in delivering information systems that benefit tens of thousands of people, and can be sustained with local resources.

The ACM - Infosys Foundation Award recognizes personal contributions by young scientists and system developers to a contemporary innovation that, through its depth, fundamental impact and broad implications, exemplifies the greatest achievements in the discipline.

The award carries a prize of \$150,000. Financial support for the award is provided by an endowment from the Infosys Foundation.

## ACM – AAAI Allen Newell Award



**Michael I. Jordan**

University of California, Berkeley



The ACM - AAAI Allen Newell Award is presented to Michael Jordan for fundamental advances in machine learning, particularly his groundbreaking work on graphical models and nonparametric Bayesian statistics, the broad application of this work across computer science, statistics, and the biological sciences.

Jordan has played a seminal role in the development of statistical machine learning and a leading role in the development of the variational approach to inference in graphical models.

His work has broad applicability within computer science, and plays a major role in the increasingly computational nature of research in statistics. He is known for working broadly with neuroscientists, statisticians, and biologists, in joint research and as an educator and ambassador.

The award is named for Allen Newell (1927-1992), a trailblazer in computer science research and education, and a founder of the artificial intelligence and cognitive science fields. A pivotal force in creating Carnegie Mellon's School of Computer Science, he co-authored *Human Problem Solving* with Nobel Laureate Herbert Simon in 1972. Both were recipients of ACM's 1975 A.M. Turing Award.

The Newell Award is presented to individuals selected for career contributions that have breadth within computer science, or that bridge computer science and other disciplines. It is accompanied by a \$10,000 prize provided by ACM and the Association for the Advancement of Artificial Intelligence (AAAI), and by individual contributions.

## Software System Award



**Mendel Rosenblum**  
Stanford University



**Edouard Bugnion**  
Cisco



**Scott Devine**  
VMware



**Edward Wang**



**Jeremy Sugerman**  
Stanford University



The Software System Award is presented for VMware Workstation 1.0, bringing virtualization technology to the Linux desktop, and creating a vibrant industry and research area around the technology. Although virtualization was first explored in the 1960s for mainframe computers, it languished until Mendel Rosenblum and his students at Stanford University rediscovered the idea as a simulation tool for new multiprocessor architectures. Realizing that virtualization could be used for actual execution, Rosenblum along with Diane Greene, Edouard Bugnion, Scott Devine, and Edward Wang founded VMware Inc. in 1998. Rosenblum, Bugnion, Devine, Wang, and VMware's first employee Jeremy Sugerman then designed and developed VMware Workstation 1.0 for Linux, bringing virtualization technology to the Linux desktop.

VMware Workstation 1.0 spurred a shift to virtual-machine-based architectures, allowing users to efficiently run multiple operating systems on desktops. The virtualization technology was adopted by large-scale data-center operators to increase the use of shared computational resources. Growing use of virtualization has spurred leading vendors of the x86 processor family to modify their designs to directly support virtualization and triggered new research on operating systems, networking, and software engineering.

The Software System Award is presented to an institution or individual recognized for developing a software system that has had a lasting influence, reflected in contributions to concepts, in commercial acceptance, or both. A prize of \$35,000 accompanies the award, with financial support provided by IBM.

## *Grace Murray Hopper Award*



**Tim Roughgarden**  
Stanford University

The Grace Murray Hopper Award is presented to Tim Roughgarden for research combining computer science and game theory to analyze network routing among self-interested parties. Roughgarden introduced novel techniques for quantifying lost efficiency when the participants in a network act in their own self interest. These techniques are increasingly important for the Internet, a decentralized collection of computers and networking equipment run by autonomous actors. His research built a much-needed bridge between theoretical computer science and the networking research community. Roughgarden's recent research, which explores how to design new network protocols with strategic users in mind, has the potential to put the design and analysis of future networks and systems on a theoretical foundation that captures the role of strategic behavior.

The award is named for Grace Murray Hopper (1906-1992), a pioneer in software development. Her work spanned programming languages, software development concepts, compiler validation, and data processing. Admiral Hopper's early recognition of the potential for commercial applications of computers, and her leadership in making this vision a reality paved the way for modern data processing.

The Grace Murray Hopper Award is presented to the outstanding young computer professional of the year, selected on the basis of a single recent major technical or service contribution. The candidate must have been 35 years of age or less at the time the qualifying contribution was made.

A prize of \$35,000 accompanies the award. Financial support for the Grace Murray Hopper Award is provided by Google, Inc.

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## *Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics*



**Gregory D. Abowd**  
Georgia Institute of  
Technology

The Lawler Award is presented to Gregory D. Abowd, of the Georgia Institute of Technology. Abowd demonstrated how advanced information technologies can be used in homes and schools to support challenges facing the individuals, families, educators, clinicians and researchers impacted by autism and related developmental disabilities.

Abowd's vision of health care and education incorporates advanced information technologies to address the diagnosis and treatment challenges of behavioral disorders. His autism work produced behavioral evaluation protocols for parents, caregivers, educators, and health care clinicians within naturalistic environments.

The Lawler Award recognizes individuals or groups who have made a significant humanitarian contribution through the use of computing technology. This biennial endowed award is accompanied by a prize of \$5,000.

## *Paris Kanellakis Theory and Practice Award*



**Mihir Bellare**

University of California,  
San Diego



**Phillip Rogaway**

University of California,  
Davis



The Paris Kanellakis Theory and Practice Award is presented to Mihir Bellare and Phillip Rogaway for their development of the field of Practice-Oriented Provable-Security and its widespread impact on the theory and practice of cryptography and security.

Practice-Oriented, Provable-Security (POPS), developed by Bellare and Rogaway in a series of papers in the 1990s, gave us the means to create high-assurance practical cryptography, meaning schemes that were backed by the theoretical guarantee of provable security while meeting practical needs and expectations. Today, POPS-based schemes are cornerstones of Internet security, implemented in most communication security protocols and software.

The award is named for Paris Christos Kanellakis (1953-1995), who, as a distinguished computer science theoretician and esteemed faculty member of Brown University, focused much of his work in the area of theoretical computer science, particularly the principles of database systems and logic. His contributions were exceptional both in the breadth of his interests and his ability to carve out research programs in which his keen mathematical insight could be put at the service of practical issues.

The Paris Kanellakis Theory and Practice Award honors specific theoretical accomplishments that have had a significant and demonstrable effect on the practice of computing.

This award is accompanied by a prize of \$10,000 and is endowed by contributions from the Kanellakis family, and financial support by ACM's SIGACT, SIGDA, SIGMOD, SIGPLAN, the ACM SIG Project Fund, and individual contributions.

## *Karl V. Karlstrom Outstanding Educator Award*



**Matthias Felleisen**

Northeastern University



The Karl V. Karlstrom Outstanding Educator Award is presented to Matthias Felleisen for visionary and long-term contributions to K-12 outreach programs, innovative textbooks, and pedagogically motivated software.

Felleisen has worked on implementing and disseminating his vision for close to two decades. His curriculum introduces the "design recipe", which combines the beauty of mathematical discovery, the elegance of functional programming and the sophistication of pedagogically sound tools. This innovation guides students from a blank sheet of paper to a complete program and helps teachers diagnose students' problems.

In 1995, Felleisen created the TeachScheme! outreach project, with week-long summer workshops for hundreds of K-12 educators who then instructed thousands of students. In 2001, he helped undergraduates launch Bootstrap, a student-to-student outreach which spawned dozens of workshops, helping students understand the fun of programming mathematics and science.

The Karlstrom Award is presented annually to an outstanding educator who is appointed to a recognized educational baccalaureate institution; recognized for advancing new teaching methodologies; effecting new curriculum development or expansion in computer science and engineering; or making a significant contribution to ACM's educational mission. Those teachers with ten years or less experience are given special consideration.

The Karlstrom Award is accompanied by a prize of \$5,000. Financial support is provided by Pearson Prentice-Hall Publishing Company.

## *Distinguished Service Award*



**Edward Lazowska**  
University of Washington

The Distinguished Service Award is presented to Edward Lazowska for more than two decades of wide-ranging and tireless service to the computing community, especially in advocacy at a national level.

Lazowska served as co-chair of the President's Information Technology Advisory Committee (PITAC) from 2003-05, where he championed the importance of computing in achieving federal priorities. He served on the National Research Council's Computer Science and Telecommunications Board (CSTB) and made major contributions to NRC and CSTB studies involving the information technology innovation ecosystem, the role of information technology in improving learning and in countering terrorism, and the management of university intellectual property. He also chaired the Board of Directors of the Computing Research Association (CRA), the NSF CISE Advisory Committee, and the DARPA Research Science And Technology (ISAT) Study Group. Recently, he was instrumental in creating and chairing the Computing Community Consortium, an NSF-sponsored effort to engage the computing research community in envisioning more audacious research challenges.

The Distinguished Service Award is given on the basis of value and degree of service to the computing community. The contributions are not limited to service to the Association, and should include activities in other computer organizations and should emphasize contributions to the computing community at large.

## *ACM-W Athena Lecturer Award*



**Mary Jane Irwin**  
Pennsylvania State  
University

The 2009-2010 Athena Lecturer Award is presented to Mary Jane Irwin. The recognition celebrates women researchers who have made fundamental contributions to computer science. The ACM-W Council, which organized the Athena Lecturer project to honor a preeminent woman computer scientist, chose to identify the honoree with the Greek goddess of wisdom, who, with her sense of purpose and willingness to enter the fray, epitomizes the strength, determination, and intelligence of the Athena Lecturers. The award includes a \$15,000 honorarium provided by Google.

The Athena Lecture took place June 22, at the International Symposium on Computer Architecture, in Saint-Malo, France.

## *Outstanding Contribution to ACM Award*



**Moshe Y. Vardi**  
Rice University



The Outstanding Contribution to ACM Award is presented to Moshe Y. Vardi for outstanding leadership in restructuring *Communications of the ACM* as the flagship publication of both ACM and the discipline, and in organizing an influential, systematic analysis of outsourcing.

In 2006, Vardi revitalized and redefined *Communications of the ACM* to become a publication of interest to practitioners, researchers, educators, and the educated public. The result is truly a flagship ACM publication, and an effective communication vehicle for the discipline to the world at large.

In 2004, he helped lay the foundation for arguments that the entire computing field has embraced: that the world of computing is globalizing, that investment in computing research is fundamentally important to innovation, that the study of computer science is critical to competitive 21st century skill sets, and that strong educational systems in which computation plays a fundamental role will define success in a competitive global economy. Vardi assembled a 30-person international task force to undertake a systematic, scientific analysis of the forces underpinning job migration. The result was a widely-circulated report, *Globalization and Offshoring of Software*, which was released in February 2006.

This award is given to individuals selected on the value and degree of service to ACM.

## ACM Presidential Award



*The ACM Presidential Awards are given to leaders of IT whose actions and achievements serve as paragons for the field. Recipients have demonstrated their exceptional abilities to advance computing technology and enhance its impact for the benefit of society through generosity, creativity and dedication to their respective missions.*



**Mathai Joseph**

Tata Consultancy Services (TCS)

For his devoted commitment to establishing an ACM presence in India. He was instrumental in the formation of the ACM India Council, launched in Bangalore in January 2010. The Council serves as an example of best practices as ACM moves forward with its international strategy. Joseph also serves ACM as a member-at-large on ACM Council, to which he was elected in 2008.

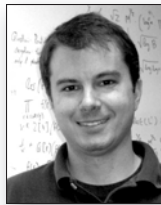


**Elaine Weyuker**

AT&T Research

For her tireless efforts in the development and growth of ACM-W. Weyuker took over as Chair of ACM-W at a critical point and over the last two years as the first Chair of the new ACM-W Council, she has reshaped ACM-W from a grassroots network to a professional community within ACM that contributes to strategic discussions at the highest levels of the organization. Under her guidance, she built a network of enthusiastic volunteers to help propel ACM-W forward, in the process creating many new ideas for activities, awards, and scholarships to cultivate and celebrate women seeking careers in computing.

## Doctoral Dissertation Award



**Craig Gentry**

IBM T.J. Watson Research Center

The Doctoral Dissertation Award is presented to Craig Gentry for his dissertation *A Fully Homomorphic Encryption Scheme*, which was nominated by Stanford University.

## Honorable Mention



**Haryadi S. Gunawi**

University of California at Berkeley

For his dissertation *Towards Reliable Storage Systems* nominated by the University of Wisconsin - Madison.

**André Platzer**

Carnegie Mellon University

For his dissertation *Differential Dynamic Logics: Automated Theorem Proving for Hybrid Systems* nominated by the University of Oldenburg, Germany.



**Noah Snaveley**

Cornell University

For his dissertation *Scene Reconstruction and Visualization from Internet Photo Collections* nominated by the University of Washington.



The Doctoral Dissertation Award is presented annually to the author(s) of the best doctoral dissertation(s) in computer science and engineering. The Doctoral Dissertation Award is accompanied by a prize of \$20,000 and the Honorable Mention Award is accompanied by a prize totaling \$10,000. Financial sponsorship of the award is provided by Google, Inc. The winning dissertation is published by Springer.

## ACM International Collegiate Programming Contest



The 2010 ACM International Collegiate Programming Contest (ICPC) competition, sponsored by IBM, drew from 103 teams which were selected from 7,109 teams of 1,931 universities from 82 countries who competed in regional contests worldwide for a spot at the 35th World Finals. The World Finals took place February 1-6, 2010, at the Harbin Engineering University, Harbin, China.

The 2010 winning team was from the Shanghai Jiaotong University. The members of the 2010 winning team are: Bin Jin, Zhao Zheng, and Zhuojie Wu. Their Coach is Yong Yu and their Assistant Coaches are Xiao Jiang and Yu Cheng.

## Intel International Science and Engineering Fair



The Intel International Science and Engineering Fair is administered by the Society for Science & the Public. Over 1,500 9th - 12th grade students from more than 40 nations earned the right to compete by winning top prize at local, regional, state or national science fairs. Special awards, presented by scientific, professional and educational organizations, include scholarships, summer internships, book and equipment grants and scientific field trips. ACM presents \$1,000 for first place, \$500 for second place, \$300 for third place, and \$200 for honorable mention winners. All receive complimentary Student Memberships during their undergraduate education. The ACM winners of the 2010 Intel ISEF are:

### First Place:

Ionut A. Budisteanu, Romania

### Second Place:

Kevin M. Ellis, Washington

### Third Place:

Michael C. Yurko, Michigan

### Honorable Mention Winners

Yang Gao, China

Vighnesh L. Shiv, Oregon

Nelson Zhang, China

## ACM Student Research Competition



The ACM Student Research Competition (SRC) represents a unique forum for ACM undergraduate and graduate student members to present their original research. Student winners from the SIGCHI, SIGGRAPH, SIGWEB Hypertext, OOPSLA, SIGCSE and Grace Hopper SRCs advanced to compete in the Grand Finals where their research contributions were evaluated, via the web, by the ACM SRC committee members. Financial sponsorship for the ACM Student Research Competition is provided by Microsoft Research. The finalists honored represent the best student research of the past year. The winners of the ACM Grand Finals are listed below in alphabetical order:

### Undergraduate Category

Diego Cavalcanti,

Federal University of Campina Grande

Eric Drewniak,

Wheaton College

Manasi Vartak,

Worcester Polytechnic Institute

### Graduate Category

Patrick Gage Kelley,

Carnegie Mellon University

Tae-Joon Kim,

Korea Institute of Technology

Michal Tvarozek,

Slovak University of Technology

## ACM Fellows



The ACM Fellows Program was established by Council in 1993 to recognize and honor outstanding ACM members for their achievements in computer science and information technology and for their significant contributions to the mission of the ACM. The ACM Fellows serve as distinguished colleagues to whom the ACM and its members look for guidance and leadership as the world of information technology evolves. The 2009 Fellows are listed below. A complete listing is on pages 26-29, and <http://fellows.acm.org/>

- Hagit Attiya*, Technion  
*David F. Bacon*, IBM T.J. Watson Research Center  
*Ricardo Baeza-Yates*, Yahoo! Research  
*Chandrajit L. Bajaj*, University of Texas at Austin  
*Vijay P. Bhatkar*, International Institute of Information Technology, Pune  
*José A. Blakeley*, Microsoft Corporation  
*Gaetano Borriello*, University of Washington  
*Alok Choudhary*, Northwestern University  
*Nell B. Dale*, University of Texas at Austin  
*Bruce S. Davie*, Cisco Systems  
*Jeffrey A. Dean*, Google, Inc.  
*Thomas L. Dean*, Google, Inc.  
*Bruce Donald*, Duke University  
*Thomas Erickson*, IBM T. J. Watson Research Center  
*Gerhard Fischer*, University of Colorado  
*Ian T. Foster*, Argonne National Laboratory  
*Andrew V. Goldberg*, Microsoft Research Silicon Valley  
*Michael T. Goodrich*, University of California, Irvine  
*Venugopal Govindaraju*, University at Buffalo, SUNY  
*Rajiv Gupta*, University of California, Riverside  
*Joseph M. Hellerstein*, University of California, Berkeley  
*Laurie Hendren*, McGill University  
*Urs Hölzle*, Google, Inc.  
*Farnam Jahanian*, University of Michigan  
*Erich L. Kaltfen*, North Carolina State University  
*David Karger*, Massachusetts Institute of Technology  
*Arie E. Kaufman*, State University of New York at Stony Brook  
*Hans-Peter Kriegel*, University of Munich (Ludwig-Maximilians-Universitaet Muenchen)  
*Maurizio Lenzerini*, Sapienza Università di Roma  
*John C.S. Lui*, The Chinese University of Hong Kong  
*Dinesh Manocha*, University of North Carolina at Chapel Hill  
*Margaret Martonosi*, Princeton University  
*Yossi Matias*, Google, Inc.  
*Renee J. Miller*, University of Toronto  
*John T. Riedl*, University of Minnesota  
*Martin Rinard*, CSAIL-MIT  
*Patricia Selinger*, IBM Research  
*R. K. Shyamasundar*, Tata Institute for Fundamental Research  
*Shang-Hua Teng*, University of Southern California  
*Chandramohan Thekkath*, Microsoft Corporation - Microsoft Research  
*Robbert van Renesse*, Cornell University  
*Baba C. Vemuri*, University of Florida  
*Paulo Veríssimo*, University of Lisbon  
*Martin Vetterli*, EPFL  
*Kyu-Young Whang*, Korea Advanced Institute of Science and Technology (KAIST)  
*Yorick Wilks*, University of Sheffield  
*Terry Winograd*, Stanford University

## *Additional ACM AWARDS*



### *ACM – IEEE CS Eckert-Mauchly Award*



William J. Dally, of NVIDIA Corp. and Stanford University, was presented with the 2010 ACM - IEEE CS Eckert-Mauchly Award for outstanding contributions to the architecture of interconnection networks and parallel computers. The award was presented June 22, 2010 at ICSA 2010, the 37th Annual International Symposium on Computer Architecture in Saint-Malo, France.

Dally developed the system and network architecture, signaling, routing, and synchronization technology in most large parallel computers. He introduced the Imagine processor, which employs stream processing architecture for high-performance computing.

Administered jointly by ACM and IEEE Computer Society, an award of \$5,000 is given for contributions to computer and digital systems architecture, where the field of computer architecture encompasses hardware-software design and analysis of computing and digital systems.

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### *ACM – IEEE CS Ken Kennedy Award*



The first recipient of the Kennedy Award was Francine Berman, of Rensselaer Polytechnic Institute. The award was presented at SC'09 in Portland, Oregon. Berman was recognized for leadership in building national-scale cyberinfrastructure to support rapidly expanding computing and information services over networked resources, including the Internet. She is a pioneer in grid computing, which lets companies or universities link computational and other resources over a network to solve health, environment and social problems.

The award honors the substantial research, service, and mentoring contributions of Ken Kennedy (1945-2007), the founder of Rice University's computer science program who was one of the world's foremost experts on high-performance computing.

The Kennedy Award recognizes substantial contributions to programmability and productivity in computing and substantial community service or mentoring contributions and includes a \$5,000 honorarium. The recipient is invited to give a presentation at an ACM or IEEE conference of the winner's choosing in the year following the announcement.

## *ACM Gordon Bell Prize*



The following were recognized with the 2009 ACM Gordon Bell Prizes at SC'09.

Low Price / Performance Category: "42 TFlops Hierarchical N-body Simulations on GPUs with Applications in both Astrophysics and Turbulence": Tsuyoshi Hamada, Nagasaki University, Rio Yokota, University of Bristol; Keigo Nitadori, RIKEN, Tetsu Narumi, University of Electro-Communications; Kenji Yasuoka, Keio University; Makoto Taiji, RIKEN; and Kyoshi Oguri, Nagasaki University.

Special Category: "The Cat is Out of the Bag: Cortical Simulations with  $10^9$  Neurons,  $10^{13}$  Synapses": Rajagopal Ananthanarayanan, IBM Almaden, Steven K. Esser, IBM Almaden and Dharmendra S. Modha, IBM Almaden, and Horst D. Simon, Lawrence Berkeley National Laboratory.

Peak Performance Category: "A Scalable Method for Ab Initio Computation of Free Energies in Nanoscale System": Chenggang Zhou, J.P. Morgan Chase & Co.; Donald M. Nicholson, Oak Ridge National Lab.; Gregory Brown, Florida State University; Jeff Larkin, Cray Inc.; and Thomas C. Schulthess, ETH (Swiss Federal Institute of Technology) Zurich.

The Gordon Bell Prizes recognize outstanding achievement in high-performance computing. The purpose is to track the progress of parallel computing, with particular emphasis on rewarding innovation in applying high-performance computing to applications in science. The awards, presented during the SuperComputing Conference, include \$10,000 in prize money. The prize is endowed by Gordon Bell, a pioneer in high-performance and parallel computing.

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## *The SIAM/ACM Award in Computational Science and Engineering*



This biennial endowed award recognizes individuals for outstanding research contributions to the field of computational science and engineering. Their contributions must be publicly available and may belong to any aspect of computational science in its broadest sense. The award includes a certificate and \$5,000 prize. Financial sponsorship is provided by SIAM. The next award will be presented in 2011.

## *ACM Award Nomination Submission Procedures*



Nominations for ACM awards should be submitted electronically by **October 31, 2010** for the Doctoral Dissertation Award, and by **November 30, 2010** for all other ACM awards, to the respective subcommittee chair listed on pages 21 & 22, or to Rosemary McGuinness at [mcguinness@acm.org](mailto:mcguinness@acm.org).

For ACM Fellow, the deadline is **September 1, 2010**. For ACM Distinguished Member it is **August 2, 2010**. For Senior Member it is **August 31, 2010**.

As a general rule, each nomination submitted should consist of at least the following items:

1. Name, address, phone number and email address of the person making the nomination.
2. Name, address, and email address of the candidate for whom an award is recommended.
3. A statement (between 200 and 500 words long) as to why the candidate deserves the particular award.
4. Supporting letters from a minimum of two endorsers.
5. For the A.M. Turing Award, a minimum of 3 endorsements should be provided. A.M. Turing Award nominations usually include substantive letters of support from a group of prominent individuals broadly representative of the candidate's field.

For the Karl V. Karlstrom Outstanding Educator Award, a CV and listing of the candidate's Ph.D. students and their current positions are requested. It would be helpful to include the candidate's CV for all other award nominations.



Please visit [www.acm.org](http://www.acm.org), for additional details about the ACM awards program, or contact:

Rosemary McGuinness  
ACM Awards Committee Liaison  
ACM  
2 Penn Plaza, Suite 701  
New York, NY 10121-0701, USA  
+1-212-626-0561  
or  
[mcguinness@acm.org](mailto:mcguinness@acm.org)



### *Awards Committee Co-Chairs*

**Calvin C. Gotlieb**  
University of Toronto  
[ccg@cs.toronto.edu](mailto:ccg@cs.toronto.edu)

**James J. Horning**  
Advanced Elemental Technologies  
[horning@acm.org](mailto:horning@acm.org)

**Robert A. Walker**  
SGB Awards Committee Liaison  
Kent State University  
[walker@cs.kentstate.edu](mailto:walker@cs.kentstate.edu)

## ACM Special Interest Group Awards



Additional information, including descriptions of the SIG Awards, nomination procedures, where the award is presented, and any prizes attached to the award, is available at [www.acm.org/sigs/sig-awards](http://www.acm.org/sigs/sig-awards)

**SIGACCESS** - Special Interest Group on Accessibility and Computers

- ◆ Best Paper Award
- ◆ Best Student Paper Award
- ◆ Outstanding Contributions to Computing and Accessibility

**SIGACT** - Special Interest Group on Algorithms and Computation Theory

- ◆ Gödel Prize
- ◆ Knuth Prize for Outstanding Contributions to the Foundations of Computer Science Service Prize
- ◆ Danny Lewin Best Student Paper Award
- ◆ SIGACT/SIGOPS Edsger W. Dijkstra Prize in Distributed Computing
- ◆ Distinguished Service Award

**SIGAda** - Special Interest Group on Ada Programming Language

- ◆ Outstanding Ada Community Contributions
- ◆ Distinguished Service Award

**SIGAPP** - Special Interest Group on Applied Computing

- ◆ Distinguished Service Award
- ◆ Outstanding Service Award

**SIGARCH** - Special Interest Group on Computer Architecture

- ◆ Maurice Wilkes Award
- ◆ ISCA Influential Paper Award
- ◆ Distinguished Service Award

**SIGART** - Special Interest Group on Artificial Intelligence

- ◆ Annual Award for Excellence in Autonomous Agent Research

**SIGBED** - Special Interest Group on Embedded Systems

- ◆ SIGBED - SIGSOFT Frank Anger Memorial Award
- ◆ SIGBED – EMSOFT Best Paper Award

**SIGCAS** - Special Interest Group on Computers and Society

- ◆ Outstanding Service Award
- ◆ Making a Difference Award

**SIGCHI** - Special Interest Group on Computer-Human Interaction

- ◆ SIGCHI Academy
- ◆ Lifetime Achievement Award
- ◆ Lifetime Practice Award
- ◆ Lifetime Service Award
- ◆ Social Impact Award

**SIGCOMM** - Special Interest Group on Data Communication

- ◆ Award for Lifetime Achievement
- ◆ Rising Star Award
- ◆ Test of Time Paper Award

**SIGCSE** - Special Interest Group on Computer Science Education

- ◆ Award for Outstanding Contributions to Computer Science Education
- ◆ Lifetime Service

**SIGDA** - Special Interest Group on Design Automation

- ◆ Outstanding Ph.D. Dissertation Award in Electronic Design Automation
- ◆ SIGDA IEEE/ACM William J. McCalla ICCAD Best Paper Award
- ◆ SIGDA Outstanding New Faculty Award
- ◆ ACM-IEEE A. Richard Newton Technical Impact Award in Electronic Design Automation

**SIGDOC** - Special Interest Group on Design of Communication

- ◆ Joseph T. Rigo Award
- ◆ Diana Award

**SIGGRAPH** - Special Interest Group on Computer Graphics

- ◆ Steven A. Coons Award
- ◆ Computer Graphics Achievement Award
- ◆ Outstanding Service Award
- ◆ Significant New Researcher Award
- ◆ Distinguished Artist Award for Lifetime Achievement in Digital Art

**SIGIR** - Special Interest Group on Information Retrieval

- ◆ Gerard Salton Award
- ◆ Best Paper Award
- ◆ Best Student Paper Award

## ACM's Special Interest Group Awards



**SIGKDD** - Special Interest Group on Knowledge Discovery in Data

- ◆ Innovation Award
- ◆ Service Award
- ◆ Doctoral Dissertation Award

**SIGMETRICS** - Special Interest Group on Measurement and Evaluation

- ◆ Achievement Award
- ◆ Kenneth C. Sevcik Outstanding Student Paper Award
- ◆ Rising Star Researcher Award
- ◆ Test of Time Paper Award

**SIGMIS** - Special Interest Group on Management Information Systems

- ◆ Magid Igbaria Outstanding Conference Paper of the Year Award

**SIGMM** – Special Interest Group on Multimedia

- ◆ SIGMM Award for Outstanding Technical Contributions
- ◆ SIGMM Award for outstanding PhD Thesis in Multimedia Computing, Communications and Applications

**SIGMOBILE** - Special Interest Group on Mobility of Systems, Users, Data & Computing

- ◆ Distinguished Service Award
- ◆ Outstanding Contributions Award to Research on Mobility of Systems, Users, Data and Computing

**SIGMOD** - Special Interest Group on Management of Data

- ◆ Contribution Award
- ◆ Edgar F. Codd Innovations Award
- ◆ Test of Time Award
- ◆ Jim Gray Doctoral Dissertation Award
- ◆ PODS Alberto O. Mendelzon Test of Time Award

**SIGOPS** - Special Interest Group on Operating Systems

- ◆ Mark Weiser Award
- ◆ Hall of Fame Award

**SIGPLAN** - Special Interest Group on Programming Languages

- ◆ Distinguished Service Award
- ◆ Programming Languages Achievement Award
- ◆ Programming Languages Software Award
- ◆ Most Influential PLDI Paper Award
- ◆ Most Influential POPL Paper Award
- ◆ Most Influential OOPSLA Paper Award
- ◆ Most Influential ICFP Paper Award
- ◆ Doctoral Dissertation Award
- ◆ Kenneth E. Iverson Award for Outstanding Contributions in Array Languages
- ◆ John Vlissides Award

**SIGSAC** - Special Interest Group on Security, Audit and Control

- ◆ Outstanding Innovation Award
- ◆ Outstanding Contribution Award

**SIGSAM** - Special Interest Group on Symbolic and Algebraic Manipulation

- ◆ Richard Jenks Memorial Prize

**SIGSIM** – Special Interest Group on Simulation and Modeling

- ◆ Distinguished Contribution Award

**SIGSOFT** - Special Interest Group on Software Engineering

- ◆ Distinguished Service Award
- ◆ Influential Educator Award
- ◆ Outstanding Research Award
- ◆ SIGSOFT/IEEE TCSE ICSE Most Influential Paper Award
- ◆ SIGSOFT Impact Paper Award

**SIGUCCS** - Special Interest Group on University and College Computing Services

- ◆ Penny Crane Award for Distinguished Service

**SIGWEB** - Special Interest Group on Hypertext, Hypermedia and Web

- ◆ Douglas Engelbart Best Paper Award
- ◆ SIGWEB/SIGIR Vannevar Bush Award
- ◆ Ted Nelson Newcomer Award

## 2009 ACM Award Subcommittee Chairs



*A. M. Turing*

*Alan Kay, Viewpoint Research Institute*

*ACM – Infosys Foundation Award in the Computing Sciences*

*Juris Hartmanis, Cornell University*

*Distinguished Service*

*Marc Shapiro, INRIA*

*Outstanding Contribution to ACM*

*Vicki Hanson, University of Dundee*

*Software System*

*Alexander L. Wolf, Imperial College London*

*Grace Murray Hopper*

*Kelly Lyons, University of Toronto*

*Doctoral Dissertation*

*Bart Selman, Cornell University*

*ACM - IEEE CS Eckert-Mauchly*

*Ronny Ronen, Intel*

*Karl V. Karlstrom Outstanding Educator*

*Nancy Leveson, MIT*

*ACM - AAAI Allen Newell*

*Daniel P. Huttenlocher, Cornell University*

*Eugene L. Lawler Award for Contributions within  
Computer Science and Informatics*

*Nina Bhatti, Hewlett-Packard Labs*

*Paris Kanellakis Theory and Practice*

*Yossi Matias, Google, Israel*

*ACM - IEEE Ken Kennedy Award*

*Rob Schreiber, Hewlett-Packard Labs*

*Intel International Science and Engineering Fair (ISEF)*

*Cynthia Brown, Portland State University*

*Fellows*

*Stephen R. Bourne, El Dorado Ventures*

*Distinguished Members*

*Marc Snir, University of Illinois*

*Telle Whitney, Anita Borg Institute for Women and Technology*

*Senior Members*

*Robert A. Walker, Kent State University*

*Gordon Bell Prize*

*Mateo Valero, Technical University of Catalonia*

*SIAM/ACM Prize in Computational Science and Engineering*

*Mary F. Wheeler, University of Texas*

## 2010 ACM Award Subcommittee Chairs and Members



### *A.M. Turing*

#### **Vint Cerf**

Google  
vint@google.com

Members:

**Alan Kay**

**Frances E. Allen**

**Jennifer Chayes**

**Adele Goldberg**

**Barbara Liskov**

**Ravi Sethi**

### *ACM-Infosys Foundation Award*

#### **Susan L. Graham**

University of California, Berkeley  
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Members:

**Juris Hartmanis**

**Henry Kautz**

**Butler Lampson**

**Prabhakar Raghavan**

### *Distinguished Service*

#### **Marc Shapiro**

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Members:

**Anne Condon**

**Bertrand Meyer**

**Gurindar Sohi**

### *Outstanding Contribution to ACM*

#### **Pat Ryan**

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Members:

**Vicki Hanson**

**Richard Snodgrass**

**Thomas Rodden**

### *Software System*

#### **Alexander Wolf**

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Members:

**Hagit Attiya**

**Anne-Marie Kermarrec**

### *Grace Murray Hopper*

#### **Martin Abadi**

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Members:

**Melanie Baljko**

**Georg Gottlob**

**Kelly Lyons**

**Mendel Rosenblum**

### *Doctoral Dissertation*

#### **Brian Bershad**

University of Washington  
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Members:

**Martin Rinard**

**Bart Selman**

**Chuang Lin**

**Allan Borodin**

### *ACM-IEEE CS*

#### *Eckert-Mauchly*

#### **Jean-Loup Baer**

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Members:

**Charles Moore**

**David A. Patterson**

### *Karl V. Karlstrom Outstanding Educator*

#### **Elaine Weyuker**

AT&T Research  
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Members:

**Nancy Leveson**

**Andrew McGettrick**

### *ACM-IEEE CS Ken Kennedy Award*

#### **Mary Hall**

University of Utah  
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Members:

**William Griswold**

**Kathryn McKinley**

**Larry Smarr**

## 2009 ACM Award Subcommittee Chairs and Members

### *ACM-AAAI Allen Newell*

**Fernando Pereira**

Google  
 pereira@google.com

Members:

**Daniel P. Huttenlocher**

**Manuela Veloso**

### *Eugene L. Lawler (Biennial)*

**Nina Bhatti**

Hewlett Packard Laboratories  
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Members:

**Eric Brewer**

**Christian Freksa**

**David Shmoys**

**Barbara Simons**

**Michael Ubell**

**Sabine Susstrunk**

### *Fellows*

**Avi Silberschatz**

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Members:

**Stephen R. Bourne**

**Stuart I. Feldman**

**Mary Jane Irwin**

**Ron Perrott**

**Andrew C. Yao**

### *Distinguished Member*

**Marc Snir**, Co-Chair

University of Illinois at  
 Urbana-Champaign  
 snir@cs.uiuc.edu

**Telle Whitney**, Co-Chair

President  
 Anita Borg Institute  
 Tellew@anitaborg.org  
 www.anitaborg.org

Members:

**Robert Lefkowitz**

**Avi Mendelson**

**Burkhard Neidecker-Lutz**

**Dave Thomas**

**Robert A. Walker**

### *Senior Members*

**Robert A. Walker**

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 senior@acm.org

Members:

**Reinaldo Bergamaschi**

**Susan Rodger**

**R.K. Shyamasundar**

**Marc Snir**

**Telle Whitney**

### *Intel International Science and Engineering Fair*

**Stephen Ibaraki**

sibaraki@cips.ca

Member:

**Robb Cutler**

### *Paris Kanellakis Theory and Practice Award*

**Peter Wegner**

Brown University  
 pw@cs.brown.edu

Members:

**Eugene Fiume**

**Monika Henzinger**

**Yossi Matias**

### *SIAM/ACM Prize in Computational Science and Engineering*

c/o Joanna Littleton  
 SIAM

Members:

**Richard J. Hanson**

**Mac Hyman**

**Mary Wheeler**

### *ACM Gordon Bell Prize*

**Horst D. Simon**

Lawrence Berkeley National  
 Laboratory  
 hdsimon@lbl.gov

Members:

**Thom Dunning**

**Michael Norman**

**Cherri Pancake**

**Mateo Valero**

## Past Recipients



### *A.M. Turing Award*

1966 A.J. Perlis  
 1967 Maurice V. Wilkes  
 1968 Richard Hamming  
 1969 Marvin Minsky  
 1970 J.H. Wilkinson  
 1971 John McCarthy  
 1972 E.W. Dijkstra  
 1973 Charles W. Bachman  
 1974 Donald E. Knuth  
 1975 Allen Newell  
 1975 Herbert A. Simon  
 1976 Michael O. Rabin  
 1976 Dana S. Scott  
 1977 John Backus  
 1978 Robert W. Floyd  
 1979 Kenneth E. Iverson  
 1980 C. Antony R. Hoare  
 1981 Edgar F. Codd  
 1982 Stephen A. Cook  
 1983 Ken Thompson  
 1983 Dennis M. Ritchie  
 1984 Niklaus Wirth  
 1985 Richard M. Karp  
 1986 John Hopcroft  
 1986 Robert Tarjan  
 1987 John Cocke  
 1988 Ivan Sutherland  
 1989 William (Velvel) Kahan  
 1990 Fernando J. Corbató  
 1991 Robin Milner  
 1992 Butler Lampson  
 1993 Juris Hartmanis  
 1993 Richard E. Stearns  
 1994 Edward A. Feigenbaum  
 1994 Raj Reddy  
 1995 Manuel Blum  
 1996 Amir Pnueli  
 1997 Douglas Engelbart  
 1998 James N. Gray  
 1999 Frederick P. Brooks, Jr.  
 2000 Andrew C. Yao  
 2001 Ole-Johan Dahl  
 2001 Kristen Nygaard  
 2002 Leonard Adleman  
 2002 Ronald Rivest  
 2002 Adi Shamir  
 2003 Alan Kay  
 2004 Vinton G. Cerf  
 2004 Robert E. Kahn  
 2005 Peter Naur  
 2006 Frances E. Allen  
 2007 Edmund Clarke  
 2007 E. Allen Emerson  
 2007 Joseph Sifakis  
 2008 Barbara Liskov

### *ACM - Infosys Foundation Award in the Computing Sciences*

2007 Daphne Koller  
 2008 Jon Kleinberg

### *Software System Award*

1983 **UNIX**  
 Ken Thompson  
 Dennis M. Ritchie  
 1984 **Xerox Alto Systems**  
 Butler W. Lampson  
 Robert W. Taylor  
 Charles P. Thacker  
 1985 **VisiCalc**  
 Daniel Bricklin  
 Robert Frankston  
 1986 **TeX**  
 Donald E. Knuth  
 1987 **SMALLTALK**  
 Alan C. Kay  
 Daniel H.H. Ingalls, Jr.  
 Adele Goldberg  
 1988 **System R**  
 Donald Chamberlin  
 James Gray  
 Raymond Lorie  
 Gianfranco Putzolu  
 Patricia Selinger  
 Irving Traiger  
 1988 **INGRES**  
 Gerald Held  
 Michael Stonebraker  
 Eugene Wong  
 1989 **PostScript**  
 John E. Warnock  
 Charles M. Geschke  
 William H. Paxton  
 Douglas K. Brotz  
 Edward A. Taft  
 1990 **NLS**  
 Douglas C. Engelbart  
 William K. English  
 Johns F. Rulifson  
 1991 **TCP/IP**  
 Vinton G. Cerf  
 Robert E. Kahn  
 1992 **Interlisp**  
 Daniel G. Bobrow  
 Richard R. Burton  
 L. Peter Deutsch  
 Ronald M. Kaplan  
 Larry Masinter  
 Warren Teitelman  
 1993 **Sketchpad**  
 Ivan Sutherland  
 1994 **Remote Procedure Call**  
 Andrew Birrell  
 Bruce Nelson

1995 **World-Wide Web**  
 Tim Berners-Lee  
 Robert Cailliau  
 1995 **NCSA Mosaic**  
 Marc Andreessen  
 Eric Bina  
 1996 no award given  
 1997 **Tcl/tk**  
 John Ousterhout  
 1998 **S System**  
 John M. Chambers  
 1999 **Apache**  
 Brian Behlendorf  
 Roy T. Fielding  
 Rob Hartill  
 David Robinson  
 Cliff Skolnick  
 Randy Terbush  
 Robert S. Thau  
 Andrew Wilson  
 2000 no award given  
 2001 **SPIN Verification System**  
 Gerard Holzmann  
 2002 **Java**  
 James A. Gosling  
 2002 **Make**  
 Stuart Feldman  
 2004 **SNP**  
 Raghuram Bindignavle  
 Simon S. Lam  
 Shaowen Su  
 Thomas Y.C. Woo  
 2005 **Boyer-Moore Theorem Prover**  
 Robert S. Boyer  
 Matt Kaufmann  
 J Strother Moore  
 2006 **Eiffel**  
 Bertrand Meyer  
 2007 **Statemate**  
 David Harel  
 Hagi Lachover  
 Amnon Naamad  
 Amir Pnueli  
 Michal Politi  
 Rivi Sherman  
 Mark Trakhtenbrot  
 Aron Trauring  
 2008 **Gamma Parallel Database System**  
 David J. DeWitt  
 Robert Gerber  
 Shahram Ghandeharizadeh  
 Goetz Graefe  
 Michael Heytens  
 Hui-I Hsiao  
 Murali M. Krishna  
 Jeffrey F. Naughton  
 Donovan A. Schneider  
 Anoop Sharma

## Past Recipients



### *Programming Systems and Languages Paper Award\**

- 1971 Peter Lucas  
Kurt Walk
- 1971 Peter J. Denning
- 1971 Edsger W. Dijkstra
- 1971 Jan Gecsei  
Richard L. Mattson  
Donald R. Slutz  
Irving Traiger
- 1971 John C. Reynolds
- 1972 no award given
- 1973 C.A.R. Hoare
- 1974 Zohar Manna  
Stephen Ness  
Jean Vuillemin
- 1975 Daniel G. Bobrow  
Ben Wegbreit
- 1975 Dennis Ritchie  
Kenneth Thompson
- 1976 John Cocke  
Frances E. Allen
- 1977 David Gries  
Susan Owicki
- 1978 Niklaus Wirth
- 1979 David L. Parnas
- 1980 no award given
- 1981 no award given
- 1982 James Gray  
Paul McJones  
Michael Blasgen  
Bruce Lindsay  
Raymond Lorie  
Thomas Price  
Gianfranco Putzolu  
Irving Traiger

\* This award was replaced in 1983 by the Software System Award

### *Grace Murray Hopper Award*

- 1971 Donald E. Knuth
- 1972 Paul E. Dirksen
- 1972 Paul H. Cress
- 1973 Lawrence Breed
- 1973 Richard Lathwell
- 1973 Roger Moore
- 1974 George N. Baird
- 1975 Allen L. Scherr
- 1976 Edward H. Shortliffe
- 1977 No Award Given
- 1978 Raymond Kurzweil
- 1979 Stephen Wozniak
- 1980 Robert M. Metcalfe
- 1981 Daniel S. Bricklin
- 1982 Brian K. Reid
- 1984 Daniel H.H. Ingalls, Jr.
- 1985 Cordell Green
- 1986 William N. Joy

- 1987 John K. Ousterhout
- 1988 Guy L. Steele
- 1989 W. Daniel Hillis
- 1990 Richard Stallman
- 1991 Feng-hsiung Hsu
- 1992 no award given
- 1993 Bjarne Stroustrup
- 1994 no award given
- 1995 no award given
- 1996 Shafira Goldwasser
- 1997 no award given
- 1998 no award given
- 1999 Wen-mei Hwu
- 2000 Lydia Kavradi
- 2001 George Necula
- 2002 Ramakrishnan Srikant
- 2003 Stephen W. Keckler
- 2004 Jennifer Rexford
- 2005 Omer Reingold
- 2006 Daniel Klein
- 2007 Vern Paxson
- 2008 Dawson Engler

### *Allen Newell Award*

- 1994 Frederick P. Brooks, Jr.
- 1995 Joshua Lederberg
- 1996 no award given
- 1997 Carver Mead
- 1998 Saul Amarel
- 1999 Nancy Leveson
- 2000 Lotfi Zadeh
- 2001 Ruzena Bajcsy
- 2002 Peter Chen
- 2003 David Haussler
- 2003 Judea Pearl
- 2004 Richard P. Gabriel
- 2005 Jack Minker
- 2006 Karen Spärck Jones
- 2007 Leonidas Guibas
- 2008 Joseph Y. Halpern
- 2008 Barbara J. Grosz

### *Paris Kanellakis Theory and Practice Award*

- 1996 Leonard Adleman
- 1996 Whitfield Diffie
- 1996 Martin Hellman
- 1996 Ralph Merkle
- 1996 Ronald Rivest
- 1996 Adi Shamir
- 1997 Abraham Lempel
- 1997 Jacob Ziv
- 1998 Randal Bryant
- 1998 Edmund M. Clarke, Jr.
- 1998 E. Allen Emerson
- 1998 Kenneth McMillan
- 1999 Daniel Sleator
- 1999 Robert Tarjan
- 2000 Narendra Karmarkar
- 2001 Gene Myers

- 2002 Peter A. Franaszek
- 2003 Gary Miller
- 2003 Michael Rabin
- 2003 Robert Solovay
- 2003 Volker Strassen
- 2004 Yoav Freund
- 2004 Robert Schapire
- 2005 Gerard Holzmann
- 2005 Robert Kurshan
- 2005 Moshe Vardi
- 2005 Pierre Wolper
- 2006 Robert K. Brayton
- 2007 Bruno Buchberger
- 2008 Corinna Cortes
- 2008 Vladimir Vapnik

### *Karl V. Karlstrom Outstanding Educator Award*

- 1989 C.L. Liu
- 1990 Gerald Jay Sussman
- 1991 David A. Patterson
- 1992 David Harel
- 1993 Andries van Dam
- 1994 Andrew Tanenbaum
- 1995 David Gries
- 1996 Peter Denning
- 1997 Jeffrey Ullman
- 1998 Avi Silberschatz
- 1999 Randy H. Katz
- 2000 Yale Patt
- 2001 Nell B. Dale
- 2002 John T. Gorgone
- 2003 Sartaj Sahni
- 2004 no award given
- 2005 Stuart J. Russell
- 2006 no award given
- 2007 Randy Pausch
- 2008 John Hopcroft

### *Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics*

- 1999 Antonia Stone
- 2001 John Blitch
- 2003 Patrick Ball
- 2005 Albrecht Ehrensperger
- 2005 Solomon Mbuguah
- 2005 Ernest Siva
- 2007 Randolph Y. Wang

### *Distinguished Service Award*

- 1970 Franz L. Alt
- 1971 J. Don Madden
- 1972 George E. Forsythe (posthumously)
- 1973 William Atchison
- 1974 Saul Gorn

## Past Recipients



1975 John W. Carr III  
 1976 Richard G. Canning  
 1977 Thomas B. Steel, Jr.  
 1978 Eric A. Weiss  
 1979 Carl Hammer  
 1980 Bernard Galler  
 1981 Aaron Finerman  
 1982 Anthony Ralston  
 1983 Grace Murray Hopper  
 1984 Saul Rosen  
 1985 Jean Sammet  
 1986 Clair Maple  
 (posthumously)  
 1987 Frederick P. Brooks, Jr.  
 1988 Charles L. Bradshaw  
 1989 Peter J. Denning  
 1990 Walter M. Carlson  
 1991 Gerald L. Engel  
 1992 Joyce Currie Little  
 1993 J.A.N. Lee  
 1994 no award given  
 1995 Doris Lidtke  
 1996 Hal Berghel  
 1997 David H. Brandin  
 1998 no award given  
 1999 Anita Borg  
 2000 Peter Wegner  
 2001 Won Kim  
 2002 Raymond E. Miller  
 2003 Ruzena Bajcsy  
 2004 E.G. Coffman  
 2005 Mary Jane Irwin  
 2006 Susan L. Graham  
 2007 David A. Patterson  
 2008 Telle Whitney

### Doctoral Dissertation Award

1982 Charles E. Leiserson  
 1983 Thomas W. Reps  
 1984 Manolis G.H. Katevenis  
 1985 John R. Ellis  
 1986 Johan Torkel Hastad  
 1986 Ketan D. Mulmuley  
 1987 John Canny  
 1988 Mauricio Karchmer  
 1989 Vijay Saraswat  
 1990 Hector Geffner  
 1990 David Heckerman  
 1991 Robert Schapire  
 1992 Kenneth McMillan  
 1992 Mendel Rosenblum  
 1993 Madhu Sudan  
 1994 David Karger  
 1994 T.V. Raman  
 1995 Sanjeev Arora  
 1995 Daniel A. Spielman  
 1996 Xiaoyuan Tu  
 1996 Carl Waldspurger  
 1997 Steven McCanne  
 1998 Hari Balakrishnan

1999 Dieter van Melkebeek  
 2000 Salil Vadhan  
 2001 Ion Stoica  
 2002 Venkatesan Guruswami  
 2003 AnHai Doan  
 2004 Boaz Barak  
 2005 Ben Liblit  
 2006 Yi-Ren Ng  
 2007 Sergey Yekhanin  
 2008 Constantinos Daskalakis

### Outstanding Contribution to ACM Award

1976 W. Smith Dorsey  
 1976 Bruce W. Van Atta  
 1978 Kathleen A. Wagner  
 1979 M. Stuart Lynn  
 1981 J.A.N. Lee  
 1982 Fred H. Harris  
 1983 Richard Austing  
 1983 Seymour J. Wolfson  
 1984 Orrin E. Taulbee  
 1985 Jack Minker  
 1985 Thomas A. D'Auria  
 1986 Herbert Maisel  
 1987 Edward G. Coffmann, Jr.  
 1988 Thomas A. DeFanti  
 1989 Monroe (Monty) Newborn  
 1990 William Poucher  
 1991 Allen Tucker  
 1992 James M. Adams  
 1992 Lorraine Borman  
 1992 Peter Neumann  
 1993 John H. Esbin  
 1993 Frank L. Friedman  
 1994 John R. White  
 1994 A. Joseph Turner  
 1995 Robert Aiken  
 1996 Stuart H. Zweben  
 1997 Robert L. Ashenurst  
 1998 Peter J. Denning  
 1999 Ronald Boisvert  
 2000 Hal Berghel  
 2001 Barbara Simons  
 2002 Patricia M. Ryan  
 2003 Mark Scott Johnson  
 2004 Richard T. Snodgrass  
 2005 Don Gotterbarn  
 2006 David S. Wise  
 2007 Robert A. Walker  
 2008 Wayne Graves  
 2008 Bernard Rous

### ACM-IEEE CS Eckert-Mauchly Award

1979 Robert S. Barton  
 1980 Maurice V. Wilkes  
 1981 Wesley A. Clark  
 1982 C. Gordon Bell  
 1983 Tom Kilburn

1984 Jack B. Dennis  
 1985 John Cocke  
 1986 Harvey G. Cragon  
 1987 Gene M. Amdahl  
 1988 Daniel P. Siewiorek  
 1989 Seymour Cray  
 1990 Kenneth E. Batchner  
 1991 Burton J. Smith  
 1992 Michael J. Flynn  
 1993 David J. Kuck  
 1994 James E. Thornton  
 1995 John Crawford  
 1996 Yale Patt  
 1997 Robert Tomasulo  
 1998 Tadashi Watanabe  
 1999 James E. Smith  
 2000 Edward Davidson  
 2001 John Hennessy  
 2002 B. Ramakrishna (Bob) Rau  
 2003 Joseph A. (Josh) Fisher  
 2004 Frederick P. Brooks, Jr.  
 2005 Robert P. Colwell  
 2006 James Pomeroy  
 2007 Mateo Valero  
 2008 David A. Patterson  
 2009 Joel Emer

### SIAM-ACM Award in Computational Science and Engineering

2003 John B. Bell  
 2003 Phillip Colella  
 2004 Achi Brandt  
 2007 Chi-Wang Shu  
 2009 Cleve Moler

### ACM Presidential Award

1985 Robert E. Kahn  
 1987 Kent Curtis  
 1998 John Gage  
 2002 Calvin C. Gotlieb  
 2006 Andreas Bechtolsheim  
 2006 Janice E. Cuny  
 2006 Edward Lazowska  
 2007 Eugene Spafford  
 2008 Stephen R. Bourne  
 2008 Patricia M. Ryan  
 2008 Barbara Ryder  
 2008 Moshe Vardi

### ACM-W Athena Lecturer Award

2006 Deborah Estrin  
 2007 Karen Spärck Jones  
 2008 Shafrira Goldwasser  
 2009 Susan Eggers

## ACM Fellows



Martín Abadi  
 Gregory D. Abowd  
 Jacob Abraham  
 Paul Abrahams  
 James M. Adams  
 William Richards Adrion  
 Anant Agarwal  
 Pankaj Agarwal  
 Dharma Agrawal  
 Rakesh Agrawal  
 Vishwani Agrawal  
 Alfred V. Aho  
 Narendra Ahuja  
 Alexander S. Aiken  
 Robert Aiken  
 Kurt Akeley  
 Ian Akyildiz  
 Frances E. Allen  
 Eric Allender  
 Franz L. Alt  
 Rajeev Alur  
 Mostafa Ammar  
 Thomas E. Anderson  
 Gregory Andrews  
 Andrew Appel  
 Sanjeev Arora  
 Arvind  
 Tetsuo Asano  
 William F. Atchison  
 Mikhail Atallah  
 Hagit Attiya\*  
 Marc Auslander  
 Richard H. Austing  
 Ozalp Babaoglu  
 David F. Bacon\*  
 Jean-Loup Baer  
 Ricardo Baeza-Yates\*  
 Victor Bahl  
 Chandrajit L. Bajaj\*  
 Ruzena Bajcsy  
 Hari Balakrishnan  
 Prithviraj Banerjee  
 Utpal Banerjee  
 Alan H. Barr  
 Victor Basili  
 Kenneth E. Batchner  
 Roger Bate  
 Catriel Beeri  
 C. Gordon Bell  
 Bonnie Berger  
 Hal Berghel  
 Francine Berman  
 Lawrence Bernstein  
 Phil Bernstein  
 Elisa Bertino  
 Vijay P. Bhatkar\*  
 Laxmi N. Bhuyan  
 Alan W. Biermann

Kenneth Birman  
 Joel Birnbaum  
 Dines Bjørner  
 José Blakeley\*  
 Michael W. Blasgen  
 Avrim Blum  
 Daniel G. Bobrow  
 Gregor Bochmann  
 Barry Boehm  
 David R. Boggs  
 Shahid H. Bokhari  
 Grady Booch  
 Lorraine Borman  
 Alan Borning  
 Gaetano Borriello\*  
 Bella Bose  
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