

# ACM

A·W·A·R·D·S



Association for  
Computing Machinery

*Advancing Computing as a Science & Profession*



# ACM AWARDS

## *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.

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 30 in this booklet.

The awards included in this overview honor recipients of ACM's 2023 awards, which are being presented at the ACM Awards Banquet on June 22, 2024, at The Palace Hotel in San Francisco, California.

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

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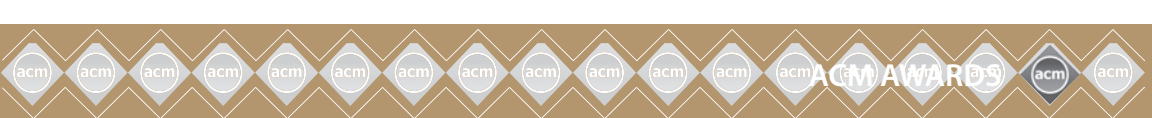


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## *A.M. Turing Award*



**Avi Wigderson**

Institute for Advanced Study

The A.M. Turing Award is presented to Avi Wigderson for foundational contributions to the theory of computation, including reshaping our understanding of the role of randomness in computation, and for his decades of intellectual leadership in theoretical computer science.

A leader in theoretical computer science research for four decades, Wigderson has made foundational contributions to the understanding of the role of randomness and pseudorandomness in computation. Computer scientists have discovered a remarkable connection between randomness and computational difficulty. Working with colleagues, Wigderson authored a highly influential series of works on trading hardness for randomness. They proved that, under standard and widely believed computational assumptions, every probabilistic polynomial time algorithm can be efficiently derandomized.

Outside of his work in randomness, Wigderson has been an intellectual leader in several other areas of theoretical computer science, including multi-prover interactive proofs, cryptography, and circuit complexity. In addition to his groundbreaking technical contributions, Wigderson is recognized as an esteemed mentor and colleague who has advised countless young researchers.

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 Enigma code. He later studied problems key to artificial intelligence.

Accompanied by a prize of \$1,000,000, 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 Google Inc.

## *ACM Prize in Computing*



***Amanda Randles***

Duke University

The ACM Prize in Computing is presented to Amanda Randles for ground-breaking contributions to computational health through innovative algorithms, tools, and high-performance computing methods for diagnosing and treating a variety of human diseases.

Randles has led her field in developing computational tools to enable high-accuracy 3D blood flow simulations to diagnose and treat a variety of human diseases. Her major contributions to the field have included developing the first simulation of the coronary arterial tree at the cellular level for an entire heartbeat, using 1.5 million computer processing units (CPU's) to simulate blood flow across the scale of the whole human body, and using trained machine learning models to develop a framework for predicting key hemodynamic metrics under new conditions.

As part of her broader work in using computers to better understand physiology, Randles has made specific contributions to fluid structure interaction, which studies the physics of a fluid interacting with a solid structure (such as the friction of blood with a vein wall). Her computational tools for modelling the cardiovascular system can also be used to understand how tumors metastasize.

The ACM Prize in Computing recognizes an early to mid-career fundamental innovative contribution in computing that, through its depth, impact, and broad implications, exemplifies the greatest achievements in the discipline. The award carries a prize of \$250,000. Financial support is provided by an endowment from Infosys Ltd.

## *ACM Frances E. Allen Award for Outstanding Mentoring*



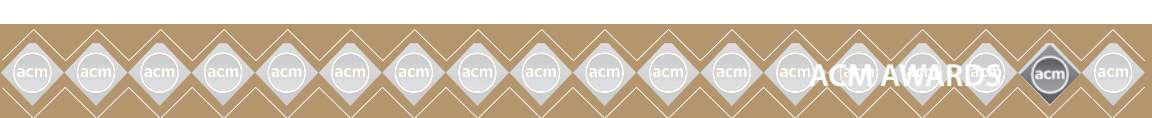
**Margaret Martonosi**  
Princeton University

The ACM Frances E. Allen Award for Outstanding Mentoring is presented to Margaret Martonosi for outstanding and far-reaching mentoring in computer architecture, and to the broader CS community. Martonosi, the Hugh Trumbull Adams '35 Professor of Computer Science at Princeton University, is a leader in the design, modelling, and verification of power efficient computer architecture.

Martonosi instituted the Discipline Specific Workshops program, an initiative of the women's group of the Computer Research Association (CRA-W) and the Coalition to Diversify Computing to increase participation of women and members of underrepresented groups. At Princeton, she has been recognized as a dedicated and extremely effective mentor for PhD students as well as women and minority graduates and undergraduates. Themes in Martonosi's work include combining theoretical underpinnings and novel algorithms with simple hardware ideas and a detailed understanding of workload behavior.

The ACM Frances E. Allen Award for Outstanding Mentoring is presented biennially to an individual who has exemplified excellence and/or innovation in mentoring with particular attention to recognition of individuals who have shown outstanding leadership in promoting diversity, equity, and inclusion in computing. The award is named for Frances E. Allen, an American computer scientist and pioneer in optimizing compilers who was the first woman to receive the ACM A.M. Turing Award, and especially known for her mentorship of younger colleagues. The award is accompanied by a prize of \$25,000 to the awardee, and an additional \$10,000 cash contribution to an approved charity of the awardee's choice. Financial support is provided by Microsoft Research.





## ACM – AAAI Allen Newell Award



**David Blei**  
Columbia University

The Newell Award is presented to David Blei for significant contributions to machine learning, information retrieval, and statistics, especially in the areas of topic models and approximate inference.

Blei's signature accomplishment is to have been the leading researcher worldwide in the machine learning area of "topic modelling," which seeks to link machine learning to other disciplines, including information retrieval. He introduced topic modelling in the foundational paper "latent Dirichlet allocation" (LDA), which is a problem-solving framework for obtaining insight from structured data. Blei has also been a leader in variational inference (VI), developing a novel framework—stochastic variational inference (SVI)—which is one of the major underlying algorithmic engines used in generative AI.

In his work on discrete choice modelling, Blei has developed a methodology for answering counterfactual queries about changes in prices, which helps to identify complementary and substitutable pairs of products. This work has built a bridge between computer science and econometrics and has been cited for its impactful use of machine learning modelling.

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.

## ACM Software System Award



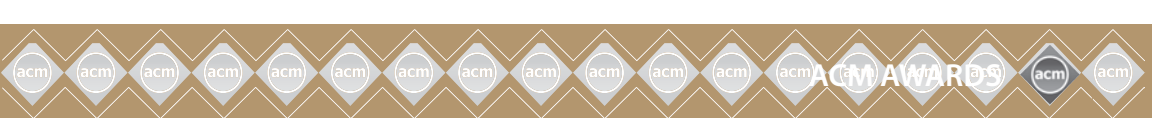
**Andrew S. Tanenbaum**

Vrije Universiteit

The Software System Award is presented to Andrew S. Tanenbaum for MINIX, which influenced the teaching of Operating Systems principles to multiple generations of students and contributed to the design of widely used operating systems, including Linux.

Tanenbaum created MINIX 1.0 in 1987 to accompany his textbook *Operating Systems: Design and Implementation*. MINIX was a small microkernel-based UNIX operating system for the IBM PC, which was popular at the time. It was roughly 12,000 lines of code, and in addition to the microkernel, included a memory manager, file system and core UNIX utility programs. It became free open-source software in 2000. Beyond enabling the success of Tanenbaum's textbook, the impact of MINIX has been phenomenal. LINUX has grown into the most successful open-source operating system powering cloud servers, mobile phones and IoT devices. Beyond the direct impact of MINIX, Tanenbaum's advocacy for microkernel design has impacted generations of operating system designers.

The Software System Award is presented to an institution or individuals 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.



## *ACM Grace Murray Hopper Award*



**Prateek Mittal**  
Princeton University

The Grace Murray Hopper Award is presented to Prateek Mittal for exposing critical vulnerabilities in encrypted internet communication systems and developing multi-vantage-point domain validation countermeasures.

The unifying theme in Mittal's research is to leverage foundational techniques from network science, comprising graph-theoretical mechanics, data mining, and inferential modelling for tackling privacy and security challenges. By conducting Internet-scale experiments with over 50,000 routers, Mittal's research showed that an adversary can exploit the insecurity of Internet routing to intercept traffic from trusted certificate authorities, and then allow an adversary to obtain a cryptographic key that is vouchsafed by trusted authorities. To mitigate these attacks, Mittal developed the ingenious idea of trusted certificate authorities validating website domain ownership from multiple vantage points on the Internet. Taken together, his contributions are impacting the integrity of global commerce, financial services, online healthcare, and everyday communications.

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 Microsoft.

## *ACM Paris Kanellakis Theory and Practice Award*



**Guy E. Blelloch**  
Carnegie Mellon University



**Laxman Dhulipala**  
University of Maryland



**Julian Shun**  
Massachusetts Institute of Technology

The Paris Kanellakis Theory and Practice Award is presented to Guy E. Blelloch, Laxman Dhulipala, and Julian Shun for contributions to algorithm engineering, including the Ligra, GBBS, and Aspen frameworks which revolutionized large-scale graph processing on shared-memory machines.

Beginning in 2013, Blelloch, Dhulipala and Shun began to explore how to analyze huge graphs on relatively inexpensive shared-memory multiprocessors. They built a sequence of frameworks (Ligra, Ligra +, Julienne, GBBS, and Aspen) which makes it much easier for programmers to efficiently solve a wide variety of graph problems. They have obtained many truly outstanding results, in which their provably efficient algorithms running on an inexpensive multi-core shared-memory machine are faster than any prior algorithms, even those running on much bigger and more expensive machines. Examples of such results include clustering, clique counting, and various forms of connectivity. These ideas and implementations are being used in industry to handle real-world problems and have also had tremendous impact on research in the field.

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.

## *ACM Policy Award*



***John M. Abowd***

Cornell University (Professor Emeritus)  
United States Census Bureau (Retired)

The ACM Policy Award is presented to John Maron Abowd for transformative work in modernizing the US Census Bureau's processing and dissemination of survey data, which serves as a model for privacy-aware management of government collected data. Abowd's work has transformed the government's capacity to improve the accuracy and availability of vital statistical and data resources, while at the same time enhancing citizens' privacy.

Abowd helped create OnTheMap, which enabled external researchers to work with differentially private data from the Longitudinal Employer-Household Dynamics Program. With these frameworks, government agencies have been able to link and share new data sources. He led the development of a disclosure avoidance system (DAS) at the Census, which succeeded in providing data that was confidential but not too homogenous. Abowd's modelling work helped anchor the bureau's data collection efforts during the 2020 Census, and he introduced methods to help the census address missing data issues caused by the COVID-19 pandemic.

The ACM Policy Award recognizes an individual or small group that had a significant positive impact on the formation or execution of public policy affecting computing or the computing community. This can be for education, service, or leadership in a technology position; for establishing an innovative program in policy education or advice; for building the community or community resources in technology policy; or other notable policy activity. The award is accompanied by a \$10,000 prize.

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



***Alicia Nicki Washington***  
Duke University



***Shaundra Daily***  
Duke University

The Karl V. Karlstrom Outstanding Educator Award is presented to Alicia Nicki Washington and Shaundra Daily for their work towards changing the national computing education system to be more equitable and to combat unjust impacts of computing on society. Washington and Daily have had a critical, wide-reaching impact on educating the broader community through a novel course, a popular training program, and a national alliance.

Washington is credited with developing a Race, Gender, Class, & Computing course—a first-of-its kind course aimed at computer science majors that grounds the discipline of computing in history, sociology, and critical race and gender studies. Building on interest in the course material, Washington joined with Shaundra Daily and graduate student Cecilé Sadler in 2020 to launch the Cultural Competence in Computing (3C) Fellows program—a program in which faculty, staff, postdoctoral researchers, and PhD students from across North America, Africa, Europe, and Australia learn about identity, different forms of oppression, intersectionality, and how they manifest in academic computing environments and technologies. In 2021, Washington and Daily grew the 3C Fellows program into the Alliance for Identity Inclusive Education in Computing (AiiCE), supported by a \$10 million National Science Foundation

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 \$10,000.

## *ACM Distinguished Service Award*



**Aidong Zhang**  
University of Virginia

The Distinguished Service Award is presented to Aidong Zhang for her impactful leadership and lasting service to the broad communities of bioinformatics, computational biology, and data mining.

As an ACM member for 29 years, Zhang has devoted tremendous efforts to serving her research community. In 2011, she founded the ACM Special Interest Group on Bioinformatics (ACM SIGBio) and served as Chair and advisor until 2021. She started SIGBio's flagship annual conference ACM BCB: the ACM Conference on Bioinformatics, Computational Biology, and Health Informatics and served as Steering Committee Chair of the conference until 2019. She also served as Steering Committee Member and Chair for ACM/IEEE Transactions on Computational Biology and Bioinformatics (TCBB) from 2012-2016, and as Editor-in-Chief from 2017-2021.

Zhang served on the SIGMOD Executive Committee, was the EiC of ACM SIGMOD-DiSC, Associate Editor for ACM SIGMOD-DiSC and ACM/Springer Multimedia Systems Journal, Technical Program Committee Co-Chair and Treasurer of ACM Multimedia, Co-Chair of the ACM SIGMOD Undergraduate Scholarship Program Committee, and General Co-Chair of SIGKDD 2022. She was chosen by the National Science Foundation to be a Program Director managing federal investments in several computing-related areas from 2015-2018.

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 ACM, and should include activities in other computer organizations and should emphasize contributions to the computing community at large.

## *Outstanding Contribution to ACM Award*



**Jack W. Davidson**  
University of Virginia

The Outstanding Contribution to ACM Award is presented to Jack W. Davidson for leadership in and contributions to ACM's Publications Program.

Davidson served as Co-Chair of the ACM Publications Board from 2010 through 2021 and has been the founding chair of the ACM Digital Library Board since 2021. He led several key efforts of paramount importance to ACM, its membership, and the computing community. Davidson also helped guide ACM through the difficult process of moving from a subscription-based free-to-publish model towards full open access.

Davidson challenged the ACM's Publications Board to address some of the longstanding issues in academic publishing such as plagiarism, compromised reviewing, broken confidentiality, and bullying. During his tenure, ACM instituted a new author name change policy applying to transgender authors as well as authors who change their names for reasons of religion or marriage. Davidson is also credited with expanding ACM's publications portfolio with the addition of interdisciplinary journals, a new line of Research and Practice Journals, and the new Proceedings of the ACM series. He also built on earlier efforts to establish standards and badging for the evaluation of artifacts and effects.

The Outstanding Contribution to ACM Award recognizes outstanding service contributions to ACM. Candidates are selected based on the value and degree of service overall, and may be given to up to three individuals each year.



## *ACM Athena Lecturer Award*



***Maja Mataric***

University of Southern California

The ACM Athena Lecturer Award is presented to Maja Mataric for pioneering contributions to the field of socially assistive robotics, including groundbreaking research, evaluation, and technology transfer, and for fundamental work in human-robot interaction and multi-robot coordination.

Mataric made fundamental contributions to autonomous cognition and interaction. Her early work was the first to demonstrate that behavior-based systems (BBS) could be endowed with spatial representation and have the expressive power to plan and learn. Her well-known system, Toto, was the first BBS to learn maps online and optimize its behavior. It is highly cited and remains a milestone in robot control. She has defined the field of socially assistive robotics (SAR), developing innovative HRI and SAR and algorithms that model user engagement, personality, group moderation, and persuasive interaction dynamics in complex and uncertain real-world environments. Mataric has also been an advocate for underrepresented groups, mentoring early career women via CRA-W and helping to place large numbers of women and members of other underrepresented groups in graduate programs and faculty positions.

The ACM Athena Lecturer Award 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 \$25,000 honorarium provided by Two Sigma.

## *ACM Doctoral Dissertation Award*



***Nivedita Arora***  
Northwestern University

The Doctoral Dissertation Award is presented to Nivedita Arora for their dissertation “Sustainable Interactive Wireless Stickers: From Materials to Devices to Applications,” toward a PhD earned at Georgia Institute of Technology.



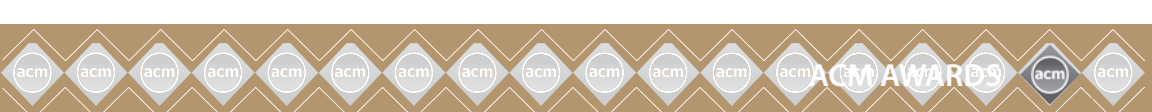
***Gabriele Farina***  
Massachusetts Institute  
of Technology



***William Kuszmaul***  
Harvard University

Honorable Mentions for the Doctoral Dissertation Award are presented to: Gabriele Farina, for their dissertation “Game-Theoretic Decision Making in Imperfect-Information Games: Learning Dynamics, Equilibrium Computation, and Complexity,” toward a PhD earned at Carnegie Mellon University; and William Kuszmaul, for their dissertation “Randomized Data Structures: New Perspectives and Hidden Surprises” toward a PhD earned at the Massachusetts Institute of Technology.

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. Winning dissertations will be published in the ACM Digital Library as part of the ACM Book Series.



## *ACM Presidential Award*



**Anand Deshpande**  
Persistent Systems

Anand Deshpande's long-standing contributions to the broader computing community and to ACM are characterized by his visionary leadership, strategic collaboration, and a commitment to advancing the field of computing science and engineering. He is one of few people who have served all three pillars of the "Triangle of Knowledge" with great success. He has been a respected researcher in his early career, he has created an extremely successful and impactful company in India from scratch, and in addition to his educational efforts as a young faculty member, he has led several concerted efforts to educate the young generation in entrepreneurial thinking in technological areas and beyond.

Furthermore, Deshpande has been a major asset of the computing ecosystem of India, having a tangible, technological, economic, and intellectual impact in his country. He has made significant contributions to the local innovation and educational environments, through think tanks and professional support foundations, but has also contributed to technology policy issues, advising the Indian government on critical topics. His efforts are not confined to computing technology alone, however, but have expanded to addressing medical diseases and other pressing societal challenges.

Deshpande has also demonstrated an unwavering dedication to furthering ACM's mission to enhance the profession and foster a global community of researchers and practitioners. He has been a cornerstone of the ACM India Council, being instrumental in its establishment, serving as its inaugural co-chair and then past president, hosting the Council's office and its staff in his company's premises through the years, and offering constant support to the Council's activities and, in general, to all ACM members in India, whose community has continued to grow and thrive.

The ACM Presidential Award is given at the discretion of the ACM President to individuals whose contributions in computing fall within the goals of the ACM.

## *ACM Presidential Award*



**M. Tamer Özsu**  
University of Waterloo

M. Tamer Özsu has had long-standing and significant contributions to the computing field and its scientific community in general, as well as to ACM in particular. In addition to his seminal research work on large-scale distributed data management and his emphasis on system building targeting grand societal challenges, he has truly dedicated himself to the education of the young generation, way beyond his own PhD and other students. The books he has co-authored, the encyclopedias he has co-edited, and the series he has curated have all been definitive resources of fundamental and application-oriented data science knowledge, nurturing and inspiring young researchers and practitioners for decades.

In addition to his contributions to the community at large, Özsu has also been a very impactful ACM volunteer leader, both at the level of his home SIG (SIGMOD) and at the horizontal level of the entire ACM. His service to the ACM Publications Board, especially his introduction of the novel ACM Books series, has left its mark on the overall strategy and portfolio of ACM publications.

The ACM Presidential Award is given at the discretion of the ACM President to individuals whose contributions in computing fall within the goals of the ACM.

## 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 2023 Fellows are listed below. A complete listing is on pages 41-51, and [awards.acm.org/fellows](https://awards.acm.org/fellows).

**Aditya Akella**, University of Texas  
**Michael Backes**, CISPA  
**Vineet Bafna**, University of California, San Diego  
**Maria-Florina Balcan**, Carnegie Mellon University  
**Nikhil Bansal**, University of Michigan  
**Mikhail Belkin**, University of California, San Diego  
**Yoshua Bengio**, Mila, Université de Montréal  
**Shai Ben-David**, University of Waterloo  
**Tim Berners-Lee**, WWW Consortium  
**Vaughn Timothy Betz**, University of Toronto  
**Ramon Caceres**, Google  
**Chandra Chekuri**, University of Illinois, Urbana-Champaign  
**Haibo Chen**, Shanghai Jiao Tong University  
**Yingying (Jennifer) Chen**, Rutgers University  
**Kenneth Ward Church**, EAI, Northeastern University  
**Roger B. Dannenberg**, Carnegie Mellon University  
**Xin Luna Dong**, Meta  
**Rolf Drechsler**, University of Bremen  
**Wenliang Du**, Syracuse University  
**Pradeep Dubey**, Intel Corporation  
**Anja Feldmann**, Max Planck Institute and TU Berlin  
**George Fitzmaurice**, Autodesk Canada, Inc.  
**Fedor Fomin**, University of Bergen  
**Jeffrey S. Foster**, Tufts University  
**Jianfeng Gao**, Microsoft  
**Ian Goldberg**, University of Waterloo  
**Sumit Gulwani**, Microsoft  
**Zhu Han**, University of Houston  
**Geoffrey Hinton**, University of Toronto  
**Nicole Immorlica**, Microsoft Research  
**Trent Jaeger**, Pennsylvania State University  
**Kenneth Richard Koedinger**, Carnegie Mellon University  
**Andreas Krause**, ETH Zurich  
**Christopher Ian Kruegel**, University of California Santa Barbara  
**H.T. Kung**, Harvard University

**Yann LeCun**, New York University  
**David Lo**, Singapore Management University  
**Wenjing Lou**, Virginia Tech  
**Kwan-Liu Ma**, University of California, Davis  
**Wei-Ying Ma**, Tsinghua University  
**Z. Morley Mao**, University of Michigan  
**Deborah McGuinness**, Rensselaer Polytechnic Institute  
**Gerard G. Medioni**, Amazon  
**Sharad Mehrotra**, University of California, Irvine  
**Seffi Naor**, Technion—Israel Institute of Technology  
**Shrikanth Narayanan**, University of Southern California  
**Natasha Noy**, Google Research  
**Corina S. Pasareanu**, NASA Ames and Carnegie Mellon University  
**Massoud Pedram**, University of Southern California  
**Anand Raghunathan**, Purdue University  
**Benjamin Raphael**, Princeton University  
**Dana Ron**, Tel Aviv University  
**Tim Roughgarden**, Columbia University  
**David Sankoff**, University of Ottawa  
**Stefan Saroiu**, Microsoft  
**Albrecht Schmidt**, Ludwig Maximilian University of Munich  
**Björn W. Schuller**, Imperial College London, Technical University of Munich  
**Phoebe Sengers**, Cornell University  
**Elaine Shi**, Carnegie Mellon University  
**Noah Snaveley**, Cornell Tech, Google  
**Ram D. Sriram**, NIST  
**Steffen Taab**, University of Stuttgart, University of Southampton  
**Alexander Szalay**, The Johns Hopkins University  
**Manik Varma**, Microsoft Research India  
**XiaoFeng Wang**, Indiana University at Bloomington  
**Kilian Weinberger**, Cornell University  
**Emmett Witchel**, The University of Texas at Austin  
**Xing Xie**, Microsoft Research Asia



## *Additional Awards*

### *ACM Charles P. “Chuck” Thacker Breakthrough in Computing Award*

The ACM Charles P. “Chuck” Thacker Breakthrough in Computing Award recognizes individuals or groups who have made surprising, disruptive, or leapfrog contributions to computing ideas or technologies. Recipients of the award are expected to give the ACM Breakthrough Lecture at a major ACM conference. The award is accompanied by a \$100,000 cash prize, with financial support provided by Microsoft. The next honoree will be recognized in 2025.

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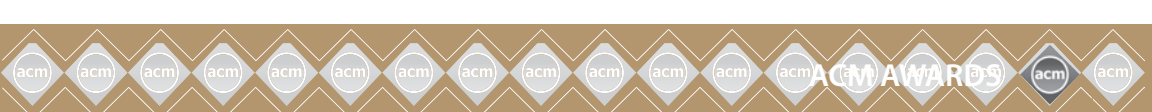
### *ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics*

The ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics recognizes an individual or group who has made a significant contribution through the use of computing technology. It is given once every two years. The award is accompanied by a prize of \$5,000. The next honoree will be recognized in 2025.

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### *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 2025.



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



***Kunle Olukotun***  
Stanford University

ACM and IEEE Computer Society named Kunle Olukotun, a Professor at Stanford University, as the recipient of the ACM-IEEE CS Eckert-Mauchly Award for contributions and leadership in the development of parallel systems, especially multicore and multithreaded processors. In the early 1990s, Olukotun became a leading designer of a new kind of microprocessor known as a “chip multiprocessor”—today called a “multicore processor.” His work demonstrated the performance advantages of multicore processors over the existing microprocessor designs at the time.

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*



***Keshav Pingali***  
University of Texas at Austin

ACM and IEEE Computer Society have named Keshav Pingali, the W.A. “Tex” Moncrief Chair of Grid and Distributed Computing at the University of Texas at Austin, as the recipient of the 2023 ACM-IEEE CS Ken Kennedy Award. Pingali is cited for contributions to high-performance parallel computing for irregular algorithms such as graph algorithms. He is also cited for leadership on the Galois Project, which provides a unifying framework for parallelizing both irregular and regular algorithms.

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 award 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 – IEEE CS George Michael Memorial HPC Fellowships*



***James Gregory Pauloski***  
University of Chicago



***Rohan Basu Roy***  
Northeastern University



***Hua Huang***  
Georgia Institute  
of Technology

James Gregory Pauloski of the University of Chicago and Rohan Basu Roy of Northeastern University are the recipients of the 2023 ACM-IEEE CS George Michael Memorial HPC Fellowships. Hua Huang of the Georgia Institute of Technology received an Honorable Mention.

Pauloski is recognized for developing systems for optimal HPC resource usage from scalable optimization methods for deep learning training to data fabrics for sophisticated applications spanning heterogeneous resources. Roy is recognized for enhancing the productivity of computational scientists and environmental sustainability of HPC with novel methods and tools exploiting cloud computing and on-premise HPC resources. Huang is recognized for contributions to high performance parallel matrix algorithms and implementations and their application to quantum chemistry calculations.

Endowed in memory of George Michael, one of the founding fathers of the SC Conference series, the ACM – IEEE CS George Michael Memorial Fellowships honor exceptional PhD students throughout the world whose research focus areas are in high-performance computing, networking, storage, and large-scale data analysis. ACM, the IEEE Computer Society, and the SC Conference support this award.

Fellowship recipients are selected each year based on overall potential for research excellence, the degree to which technical interests align with those of the HPC community, academic progress to date, recommendations by their advisor and others, and a demonstration of current and anticipated use of HPC resources. The Fellowship includes a \$5,000 honorarium, plus travel and registration to receive the award at the annual SC conference.



## *ACM/CSTA Cutler-Bell Prize in High School Computing*



***Shobhit Agarwal***  
Reedy High School (TX)



***Franziska Borneff***  
Hidden Valley High School (VA)



***Daniel Mathew***  
Poolesville High School (MD)



***Kosha Upadhyay***  
Bellevue High School (WA)

The Cutler-Bell Prize recipients will be formally recognized at the Computer Science Teachers Association's annual conference which will be held in July 2024.

The Prize, bestowed by ACM and CSTA (Computer Science Teachers Association), recognizes computer science talent in high school students. The intent of the program is to promote the field of computer science as well as to empower young and aspiring learners to pursue computing challenges outside of the traditional classroom environment. The award was established by David Cutler and Gordon Bell and includes a \$10,000 scholarship for each selected student. The award is financially supported by an endowment from the Gordon Bell and David Cutler Endowment Fund.

## *ACM Gordon Bell Prize*

An eight-member team drawn from American and Indian institutions was named recipient of the 2023 ACM Gordon Bell Prize for the project, “Large-Scale Materials Modeling at Quantum Accuracy: Ab Initio Simulations of Quasicrystals and Interacting Extended Defects in Metallic Alloys.”

The members of the team are: Sambit Das (University of Michigan), Bikash Kanungo (University of Michigan), Vishal Subramanian, (University of Michigan), Gourab Panigrahi (Indian Institute of Science, Bangalore), Phani Motamarri (Indian Institute of Science, Bangalore), David Rogers (Oakridge National Laboratory), Paul M. Zimmerman (University of Michigan), and Vikram Gavini (University of Michigan).

The Gordon Bell Prize recognizes 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 award, presented during the annual SC Conference, includes \$10,000 in prize money. The prize is endowed by Gordon Bell, a pioneer in high-performance and parallel computing.

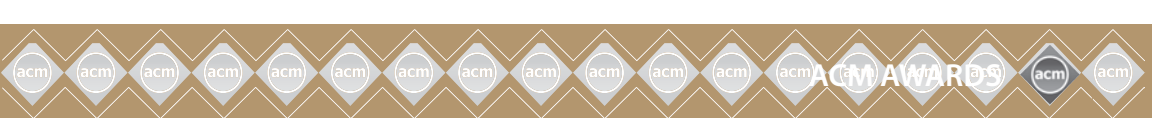
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## *ACM Gordon Bell Prize for Climate Modelling*

A nineteen-member team was named recipient of the inaugural ACM Gordon Bell Prize for Climate Modelling for their project, “The Simple Cloud-Resolving E3SM Atmosphere Model Running on the Frontier Exascale System.” The new award aims to recognize innovative parallel computing contributions toward solving the global climate crisis.

The members of the team are: Mark A. Taylor, Luca Bertagna, Conrad Clevenger, James G. Foucar, Oksana Guba, Benjamin R. Hillman, Andrew G. Salinger (all of Sandia National Laboratories); Peter M. Caldwell, Aaron S. Donahue, Noel Keen, Christopher R. Terai, Renata B. McCoy, David C. Bader (all of Lawrence Livermore National Laboratory); Jayesh Krishna, Danqing Wu (both of Argonne National Laboratory); Matthew R. Norman, Sarat Sreepathi (both of Oakridge National Laboratory); James B. White III (Hewlett Packard Enterprise); and L. Ruby Leung (Pacific Northwest National Laboratory).

The ACM Gordon Bell Prize for Climate Modelling aims to recognize innovative parallel computing contributions toward solving the global climate crisis. A cash prize in the amount of \$10,000 accompanies the award, which was conceived and funded by Gordon Bell. Recipients of the ACM Gordon Bell Prize for Climate Modelling will have their research published in The International Journal of High Performance Computing Applications (IJHPCA).



# *ACM Regional Awards*

## *ACM India Doctoral Dissertation Award*



**Pranjal Dutta**  
Chennai Mathematical Institute

The ACM India Doctoral Dissertation Award is presented to Pranjal Dutta for his dissertation titled "A Tale of Hardness, De-Randomization and De-Bordering in Complexity Theory." toward a PhD earned at Chennai Mathematical Institute. Pranjal's dissertation makes breakthrough contributions in the study of hardness, approximation and derandomization of algebraic circuits, and develops new mathematical tools, laying the foundation for future developments in algebraic complexity theory.



**Jogendra Nath Kundu**  
Indian Institute of Science

Honorable Mention for the ACM India Doctoral Dissertation Award is presented to Jogendra Nath Kundu, for his dissertation "Self-Supervised Domain Adaptation Framework for Computer Vision Tasks" toward a PhD earned at the Indian Institute of Science

The ACM India Doctoral Dissertation Award recognizes the best doctoral dissertation from a degree-awarding institution based in India, and is accompanied by a prize of ₹ 200,000. The winning dissertation will be published in the ACM Digital Library. This award is additionally supported by the Tata Consultancy Services.

## *ACM India Early Career Researcher Award*



**Siddharth Barman**

Indian Institute of Science (IISc) Bangalore

For pioneering contributions to important problems at the intersection of computer science and microeconomics, in particular, to algorithmic game theory and to the theory of fair and efficient resource allocation.

The ACM India Early Career Researcher (ECR) Award recognizes individuals in early stages of their careers who have made fundamental, innovative, and impactful contributions to the computing field while primarily working in India. The award carries a prize of ₹15 lakhs (approximately USD \$20,000). Financial support for this award is provided by the Persistent Foundation.

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## *ACM India Outstanding Contributions in Computing by a Woman*

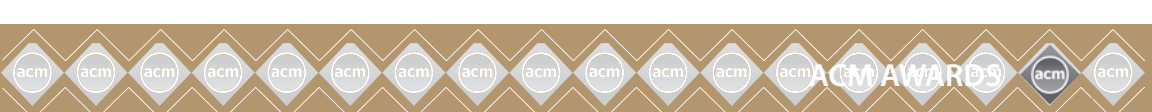


**Nutan Limaye**

IT University of Copenhagen

For her outstanding contributions, while in India, to computational complexity, and her active encouragement and mentoring of women in the field.

The ACM India Outstanding Contributions in Computing by a Woman (OCCW) Award recognizes women professionals who have made fundamental, innovative, impactful contributions to the computing field primarily working in India. The award carries a prize of ₹7 lakhs (approximately USD \$10,000). Financial support for this award is provided by Google.



## *ACM India Outstanding Contribution to Computing Education Award*



**Sudip Misra**

Indian Institute of Technology, Kharagpur

For impactful contributions to IoT and Networks education through online courses, textbooks, short-term courses, research, and laboratory development.

The ACM India Outstanding Contribution to Computing Education (OCCE) Award recognizes individuals who have made fundamental, innovative and impactful contributions to computing education in India. The award carries a prize of ₹7 lakhs (approximately USD \$10,000). Financial support for this award is provided by Microsoft Research India.

## *CCF/ACM Award for Artificial Intelligence*



**Hang Li**

ByteDance

The 2023 CCF-ACM Award for Artificial Intelligence is presented to Hang Li of ByteDance for his distinguished contributions to information retrieval, natural language processing, and statistical machine learning.

The CCF-ACM Artificial Intelligence Award, established by the Chinese Computer Federation and ACM, is awarded to professionals who have made outstanding contributions to the theory, technology, or application of artificial intelligence and worked in China at the time of the award.

## *ACM China Doctoral Dissertation Award*



**Peng Ni**  
Central South University



**Zili Meng**  
Hong Kong University of  
Science and Technology

The ACM China Doctoral Dissertation Award is presented to: Peng Ni for their dissertation toward a PhD earned at Central South University; and Zili Meng for their dissertation toward a PhD earned at Hong Kong University of Science and Technology.

The ACM China Doctoral Dissertation Award recognizes the best doctoral dissertation(s) in computer science and engineering from a degree-awarding institution based in China, for the purpose of encouraging dedicated research and academic achievement. The award is accompanied by a prize of ¥10,000.

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## *ACM China Rising Star Award*



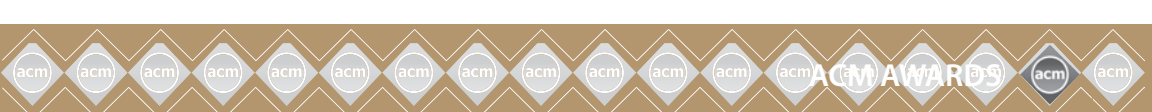
**Meng Jin**  
Shanghai Jiao Tong University



**Wenguan Wang**  
Zhejiang University

The China Rising Star Award is presented to: Meng Jin for their dissertation toward a PhD earned at Shanghai Jiao Tong University; and Wenguan Wang for their dissertation toward a PhD earned at Zhejiang University.

The ACM China Rising Star Award is given annually to recognize rising stars in the Chinese computing community who demonstrate outstanding potential for research in the field of computing. The selection is based on the impact of the candidate's work in the field in creating promising new ideas, paradigms, and novel systems which are related to computer or communications systems, which may be analytical, empirical or experimental in nature. Besides the honor, a prize of ¥10,000, will also be presented to each winner.



## *IPSJ/ACM Award for Early Career Contributions to Global Research*



***Yuki Koyama***

National Institute of Advanced Industrial  
Science and Technology (AIST)

The IPSJ/ACM Award for Early Career Contributions to Global Research is presented to Yuki Koyama, National Institute of Advanced Industrial Science and Technology (AIST), for his expertise in mathematical optimization and interaction design which have advanced the ability of end-users to discover their ideal design solutions. Notably, he invented an innovative extension of Bayesian optimization, enabling efficient human-in-the-loop design optimization frameworks.

The IPSJ/ACM Award for Early Career Contributions to Global Research recognizes technical achievement by an early to mid-career researcher (10 years or less after receiving his/her doctoral degree). The contributions should be through an international collaboration or a collaboration for which there is reasonable expectation of future international collaboration.



## *Awards Committee Co-Chairs*



**Roy Levin**  
roy@levin.net



**John R. White**  
white@acm.org



## *ACM Award Nomination Submission Procedures*

Nominations for the awards presented at the June Awards Banquet are due in late Fall, but other awards are presented throughout the year.

For ACM Fellow, the deadline is **September 7, 2024**

For ACM Distinguished Member, the deadline is **August 1, 2024.**

For ACM Senior Member, the deadline is **September 3, 2024.**

Nomination forms and guidelines will be found on the awards site under "Advanced Grades of Membership"  
<https://awards.acm.org/advanced-member-grades>.

For information on the nominations process and deadline for each award, please visit:  
<https://awards.acm.org/award-nominations>

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

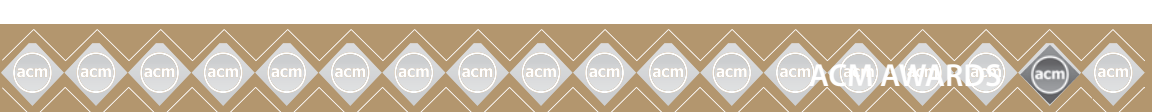
**Jade Morris**  
ACM Awards Committee Liaison  
[jade.morris@acm.org](mailto:jade.morris@acm.org)



## *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).





# 2023 ACM Award Subcommittee Chairs and Members



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University of Pennsylvania  
mkearns@cis.upenn.edu

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**Pat Hanrahan**

**Monika Henzinger**

**Norm Jouppi**

**Stuart Russell**

**Margo Seltzer**

**Luca Trevisan**

**Manuela Veloso**

**Jeannette Wing**

## *ACM Prize in Computing*

**Shwetak Patel**

University of Washington  
shwetak@cs.washington.edu

Members:

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**Jasmin Fisher**

**Sham Kakade**

**Ravi Kannan**

**Zhengyou Zhang**

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Pennsylvania State  
University  
mji@psu.edu

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**Carla Brodley**

**Ron Cytron**

**William Robinson**

**Barbara Ryder**

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University of New South  
Wales

tw@cse.unsw.edu.au

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**Beth Mynatt**

**Fernando Pereira**

**Yoav Shoham**

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thekkath@thekkath.org

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**Theo Schlossnagle**

**Kelly Shortridge**

**Lidong Zhou**

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Carnegie Mellon University  
lorrie@cs.cmu.edu

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**Jelani Nelson**

**Timothy Pinkston**

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**Moni Naor**

Weizmann Institute  
moni.naor@weizmann.ac.il

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**Corinna Cortez**

**Sergey Yekhanin**

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Duke University  
rodger@cs.duke.edu

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**Tim Bell**

**Jan Vahrenhold**

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Microsoft Research  
Cambridge  
mcastro@microsoft.com

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**Manuel Perez-Quinones**

**Radia Perlman**

**Len Shustek**

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churchill@acm.org

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Purdue University  
bertino@purdue.edu

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**Arati Dixit**

**Srinivasan Seshan**

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**Lorraine Kisselburgh**

Purdue University  
lorraine@purdue.edu

Members:

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**Juan Gilbert**

**Bran Knowles**

**Gerhard Schimpf**

## *Doctoral Dissertation*

**Nate Foster**

Cornell University  
jnfoster@cs.cornell.edu

## 2023 ACM Award Subcommittee Chairs and Members



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ELLIS Alicant Foundation  
[nuria@alum.mit.edu](mailto:nuria@alum.mit.edu)

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**Charles Isbell**  
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**Frank Pfenning**  
**Holly Rushmeier**

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University of Virginia  
[matthewbdwyer@virginia.edu](mailto:matthewbdwyer@virginia.edu)

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**Tanzeem Choudhury**  
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**Fatma Ozcan**  
**Ingrid Russell**  
**Sudeep Sarkar**  
**Kaisa Väänänen**

### *ACM – IEEE CS Eckert-Mauchly*

**Natalie Enright Jerger**  
University of Toronto  
[enright@ece.utoronto.ca](mailto:enright@ece.utoronto.ca)

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**Steve Reinhardt**

IEEE CS Members:  
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**Steve Keckler**  
**Peh Li-Shiuan**

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**Dongmei Zhang**  
Microsoft Research  
[dongmeiz@microsoft.com](mailto:dongmeiz@microsoft.com)

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**Lori Diachin**

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**Daniel Reed**  
**Vivek Sarkar**

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**Igancio Laguna**  
Lawrence Livermore  
National Laboratory  
[ilaguna@llnl.gov](mailto:ilaguna@llnl.gov)

ACM Members:  
**Michael Gerndt**  
**Christine Harvey**  
**Tamara Kolda**

IEEE Members:  
**Patricia Damkroger**  
**Ewa Deelman**  
**Tina Declerk**  
**Samantika Sury**

### *SIAM/ACM Prize in Computational*

### *Science and Engineering (Biennial)*

SIAM Members:  
**David Keyes**  
**Lois McInnes**  
ACM Members:  
**Geoffrey Fox**  
**Bobby Schnabel**

### *Gordon Bell Prize*

**Taisuke Boku**  
University of Tsukuba

Members:  
**Barbara Chapman**  
**Judith Hill**  
**Wolfgang Nagel**  
**Amanda Randles**  
**Suzanne Shontz**  
**Kenjiro Taura**  
**John Taylor**

### *Gordon Bell Prize for Climate Modelling*

**John Taylor**  
Australian National  
University  
[John.Taylor@anu.edu.au](mailto:John.Taylor@anu.edu.au)

Members:  
**Ilkay Altintas**  
**Jack Dongarra**  
**Ian Foster**  
**Satoshi Matsuoka**

### *Regeneron International Science and Engineering Fair*

**Tom Yeh**  
Colorado University  
[tom.yeh@colorado.edu](mailto:tom.yeh@colorado.edu)

Members:  
**Gardner-McCune**  
**Jesmin Jahan Tithi**  
**Jessica Yauney**

## 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  
 2009 Charles Thacker  
 2010 Leslie G. Valiant  
 2011 Judea Pearl  
 2012 Shafi Goldwasser  
 2012 Silvio Micali  
 2013 Leslie Lamport  
 2014 Michael Stonebreaker  
 2015 Whitfield Diffie  
 2015 Martin E. Hellman  
 2016 Sir Tim Berners-Lee  
 2017 John Hennessy  
 2017 David Patterson  
 2018 Yoshua Bengio  
 2018 Geoffrey Hinton  
 2018 Yann LeCun  
 2019 Edwin Catmull  
 2019 Patrick Hanrahan  
 2020 Alfred Vaino Aho  
 2020 Jeffrey David Ullman  
 2021 Jack J. Dongarra  
 2022 Bob Metcalfe

### *ACM Prize in Computing\**

2007 Daphne Koller  
 2008 Jon Kleinberg  
 2009 Eric Brewer  
 2010 Frans Kaashoek  
 2011 Sanjeev Arora  
 2012 Jeffrey Dean  
 2012 Sanjay Ghemawat  
 2013 David Blei  
 2014 Dan Boneh  
 2015 Stefan Savage  
 2016 Alexei A. Efros  
 2017 Dina Katabi  
 2018 Shwetak Patel  
 2019 David Silver  
 2020 Scott Aaronson  
 2021 Pieter Abbeel  
 2022 Yael Tauman Kalai

*\* Formerly the ACM-Infosys Award  
 in the Computing Sciences*

### *ACM Charles P. "Chuck" Thacker Breakthrough in Computing Award (Biennial)*

2018 Mendel Rosenblum  
 2020 Michael Franz  
 2022 David B. Papworth

### *ACM Frances E. Allen Award for Outstanding Mentoring (Biennial)*

2021 Carla E. Brodley

### *Software System Award*

1983 **UNIX**  
 Ken Thompson  
 Dennis M. Ritchie  
 1984 **Xerox Alto Systems**  
 Butler W. Lampson

## Past Recipients



- |  |  |  |
|--|--|--|
| Robert W. Taylor<br>Charles P. Thacker   | Ronald M. Kaplan<br>Larry Masinter<br>Warren Teitelman   | Shaowen Su<br>Thomas Y.C. Woo  |
| 1985 <b>VisiCalc</b><br>Daniel Bricklin<br>Robert Frankston  | 1993 <b>Sketchpad</b><br>Ivan Sutherland   | 2005 <b>Boyer-Moore<br/>Theorem Prover</b><br>Robert S. Boyer<br>Matt Kaufmann<br>J Strother Moore   |
| 1986 <b>TeX</b><br>Donald E. Knuth   | 1994 <b>Remote Procedure Call</b><br>Andrew Birrell<br>Bruce Nelson  | 2006 <b>Eiffel</b><br>Bertrand Meyer   |
| 1987 <b>SMALLTALK</b><br>Alan C. Kay<br>Daniel H.H. Ingalls, Jr.<br>Adele Goldberg   | 1995 <b>World-WideWeb</b><br>Tim Berners-Lee<br>Robert Cailliau  | 2007 <b>Statemate</b><br>David Harel<br>Hagi Lachover<br>Amnon Naamad<br>Amir Pnueli<br>Michal Politi<br>Rivi Sherman<br>Mark Trakhtenbrot<br>Aron Trauring  |
| 1988 <b>SystemR</b><br>Donald Chamberlin<br>James Gray<br>Raymond Lorie<br>Gianfranco Putzolu<br>Patricia Selinger<br>Irving Traiger | 1995 <b>NCSA Mosaic</b><br>Marc Andreessen<br>Eric Bina  | 2008 <b>Gamma Parallel<br/>Database System</b><br>David J. DeWitt<br>Robert Gerber<br>Shahram<br>Ghandeharizadeh<br>Goetz Graefe<br>Michael Heytens<br>Hui-I Hsiao<br>Murali M. Krishna<br>Jeffrey F. Naughton<br>Donovan A. Schneider<br>Anoop Sharma |
| 1988 <b>INGRES</b><br>Gerald Held<br>Michael Stonebraker<br>Eugene Wong  | 1996 <b>no award given</b>   | 2009 <b>VMware Workstation 1.0</b><br>Edouard Bugnion<br>Scott Devine<br>Mendel Rosenblum<br>Jeremy Sugarman<br>Edward Wang  |
| 1989 <b>PostScript</b><br>John E. Warnock<br>Charles M. Geschke<br>William H. Paxton<br>Douglas K. Brotz<br>Edward A. Taft           | 1997 <b>Tcl/tk</b><br>John Ousterhout  | 2010 <b>GroupLens<br/>Collaborative Filtering</b>  |
| 1990 <b>NLS</b><br>Douglas C. Engelbart<br>William K. English<br>Johns F. Rulifson   | 1998 <b>S System</b><br>John M. Chambers   |  |
| 1991 <b>TCP/IP</b><br>Vinton G. Cerf<br>Robert E. Kahn   | 1999 <b>Apache</b><br>Brian Behlendorf<br>Roy T. Fielding<br>Rob Hartill<br>David Robinson<br>Cliff Skolnick<br>Randy Terbush<br>Robert S. Thau<br>Andrew Wilson |  |
| 1992 <b>Interlisp</b><br>Daniel G. Bobrov<br>Richard R. Burton<br>L. Peter Deutsch   | 2000 <b>no award given</b>   |  |
|  | 2001 <b>SPIN Verification<br/>System</b><br>Gerard Holzmann  |  |
|  | 2002 <b>Java</b><br>James A. Gosling   |  |
|  | 2002 <b>Make</b><br>Stuart Feldman   |  |
|  | 2004 <b>SNP</b><br>Raghuram Bindignavle<br>Simon S. Lam  |  |

## Past Recipients



- |   |   |  |
|---|---|--|
| <p><b>Recommender Systems</b><br/>           Peter Bergstrom<br/>           Lee Gordon<br/>           Jonathan Herlocker<br/>           Neophytos Iacovou<br/>           Joseph A. Konstan<br/>           Shyong (Tony) Lam<br/>           David Maltz<br/>           Sean McNee<br/>           Bradley Miller<br/>           Paul Resnick<br/>           John Riedl<br/>           Mitesh Suchak</p> | <p>2014 <b>MACH</b><br/>           Rick Rashid<br/>           Avadis (Avie) Tevanian</p> <p>2015 <b>GCC (GNU Compiler Collection)</b><br/>           Richard Stallman</p> <p>2016 <b>Andrew File System (AFS)</b><br/>           John H. Howard<br/>           Michael L. Kazar<br/>           David A. Nichols<br/>           Sherri M. Nichols<br/>           Mahadev<br/>           Satyanarayanan<br/>           Robert N. Sidebotham<br/>           Alfred Z. Spector<br/>           Michael J. West<br/>           (posthumously)</p> <p>2017 <b>Project Jupyter</b><br/>           Fernando Pérez<br/>           Brian E. Granger<br/>           Min Ragan-Kelley<br/>           Paul Ivanov<br/>           Thomas Kluyver<br/>           Jason Grout<br/>           Matthias Bussonnier<br/>           Damián Avila<br/>           Steven Silvester<br/>           Jonathan Frederic<br/>           Kyle Kelley<br/>           Jessica Hamrick<br/>           Carol Willing<br/>           Sylvain Corlay<br/>           Peter Parente</p> <p>2018 <b>Wireshark</b><br/>           Fernando Pérez</p> <p>2019 <b>DNS</b><br/>           Paul Mockapetris</p> <p>2020 <b>Berkeley DB</b></p> | <p>Keith Bostic<br/>           Michael Olson<br/>           Margo Seltzer</p> <p>2021 <b>CompCert</b><br/>           Sandrine Blazy<br/>           Zaynah Dargaye<br/>           Jacques-Henri Jourdan<br/>           Xavier Leroy<br/>           Michael Schmidt<br/>           Bernhard Schommer<br/>           Jean-Baptiste Tristan</p> <p>2022 <b>seL4 microkernel</b><br/>           Gernot Heiser<br/>           Gerwin Klein<br/>           Harvey Tuch<br/>           Kevin Elphinstone<br/>           June Andronick<br/>           David Cock<br/>           Philip Derrin<br/>           Dhammika Elkaduwe<br/>           Kai Engelhardt<br/>           Toby Murray<br/>           Rafal Kolanski<br/>           Michael Norrish<br/>           Thomas Sewell<br/>           Simon Winwood</p> <p><i>Programming Systems and Languages Paper Award*</i></p> <p>1971 Peter Lucas<br/>           Kurt Walk</p> <p>1971 Peter J. Denning</p> <p>1971 Edsger W. Dijkstra</p> <p>1971 Jan Gecsei<br/>           Richard L. Mattson<br/>           Donald R. Slutz<br/>           Irving Traiger</p> <p>1971 John C. Reynolds</p> <p>1972 no award given</p> |
|---|---|--|

## Past Recipients



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 Shafrira 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  
 2009 Tim Roughgarden  
 2010 Craig Gentry  
 2011 Luis von Ahn  
 2012 Martin Casado  
 2012 Dina Katabi  
 2013 Pedro Felzenszwalb  
 2014 Sylvia Ratnasamy  
 2015 Brent Waters  
 2016 Jeffrey Michael Heer  
 2017 Amanda Randles

2018 Constantinos  
     Daskalakis  
     Michael J. Freedman  
 2019 Maria Florina Balcan  
 2020 Shyamnath Gollakota  
 2021 Raluca Ada Popa  
 2022 Mohammad Alizadeh

### 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 Hausser  
 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  
 2009 Michael I. Jordan  
 2010 Takeo Kanade  
 2011 Stephanie Forrest  
 2012 Yoav Shoham  
 2012 Moshe Tennenholtz  
 2013 no award given  
 2014 Jon Kleinberg  
 2015 Eric Horvitz  
 2016 Jitendra Malik  
 2017 Margaret A. Boden  
 2018 Henry Kautz  
 2019 Lydia Kavradi  
 2019 Daphne Koller

## Past Recipients



2020 Hector Levesque  
 2020 Moshe Vardi  
 2021 Carla Gomes  
 2022 Bernhard Schölkopf  
 Stuart J. Russell

### *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

2009 Mihir Bellare  
 2009 Phillip Rogaway  
 2010 Kurt Mehlhorn  
 2011 Hanan Samet  
 2012 Andrei Broder  
 2012 Moses Charikar  
 2012 Piotr Indyk  
 2013 Robert Blumofe  
 2013 Charles Leiserson  
 2014 James Demmel  
 2015 Michael G. Luby  
 2016 Amos Fiat  
 2016 Moni Naor  
 2017 Scott J. Shenker  
 2018 Pavel Pevzner  
 2019 Noga Alon  
 2019 Phillip Gibbons  
 2019 Yossi Matias  
 2019 Mario Szegedy  
 2020 Yossi Azar  
 2020 Andrei Broder  
 2020 Anna Karlin  
 2020 Michael Mitzenmacher  
 2020 Eli Upfal  
 2021 Avrim Blum  
 Irit Dinur  
 Cynthia Dwork  
 Frank McSherry  
 Kobbi Nissim  
 Adam Davison Smith  
 2022 Michael Burrow  
 Paolo Ferragina  
 Giovanni Manzini

### *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  
 2009 Matthias Felleisen  
 2010 Barbara Ericson  
 2010 Mark Guzdial  
 2011 Hal Abelson  
 2012 Eric S. Roberts  
 2013 Susan Rodger  
 2014 William A. Wulf  
 2015 Armando Fox  
 2016 Owen Astrachan  
 2017 Judith Gal-Ezer  
 2018 Robert Sedgewick  
 2019 Mordechai Ben-Ari  
 2020 Andrew McGettrick  
 2021 Mark Allen Weiss  
 2022 Michael E. Caspersen





## Past Recipients



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

- 1999 Antonia Stone
- 2001 John Blitch
- 2003 Patrick Ball
- 2005 Albrecht Ehrensperger
- 2005 Solomon Mbuguah
- 2005 Ernest Siva
- 2007 Randolph Y. Wang
- 2009 Gregory Abowd
- 2012 Thomas Bartoschek
- 2012 Johannes Schöning
- 2014 Robin Roberson  
Murphy
- 2016 Ken Banks
- 2018 Meenakshi  
Balakrishnan
- 2020 Richard Anderson
- 2022 Jelani Nelson

### *Distinguished Service Award*

- 1970 Franz L. Alt
- 1971 J. Don Madden
- 1972 George E. Forsythe  
(posthumously)
- 1973 William Atchison
- 1974 Saul Gorn
- 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
- 2009 Edward Lazowska
- 2010 Reinhard Wilhelm
- 2011 William A. Wulf
- 2012 Mateo Valero
- 2013 Gerhard Goos
- 2013 Juris Hartmanis
- 2013 Jan van Leeuwen
- 2014 Dame Wendy Hall
- 2015 Ron Perrott
- 2016 Leonard J. Shustek
- 2017 Janice Cuny
- 2018 Victor Bahl
- 2019 Michael Ley

- 2020 Jennifer T. Chayes
- 2021 Erik Altman
- 2022 Ramesh Jain

### *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



## Past Recipients



Daskalakis  
 2009 Craig Gentry  
 2010 Bryan Parno  
 2011 Seth Cooper  
 2012 Shyamnath Gollakota  
 2013 Sanjam Garg  
 2014 Matei Zaharia  
 2015 Julian Shun  
 2016 Haitham Hassanieh  
 2017 Aviad Rubenstein  
 2018 Chelsea Finn  
 2019 Dor Minzer  
 2020 Chuchu Fan  
 2021 Manish Raghavan  
 2022 Aayush Jain

### *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. Ashenhurst  
 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  
 2009 Moshe Y. Vardi  
 2010 Joseph S. DeBlasi  
 2011 Calvin C. (Kelly) Gottlieb  
 2012 Zvi Kedem  
 2013 Donna Cappel  
 2013 Russell Harris  
 2014 Dame Wendy Hall  
 2015 no award given  
 2016 Valerie Barr  
 2017 Stephen Bourne  
 2018 Chris Stephenson  
 2019 Arati Dixit  
 2020 Chris L. Hankin  
 2022 Joseph A. Konstan

### *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 Pomerene  
 2007 Mateo Valero  
 2008 David A. Patterson  
 2009 Joel Emer  
 2010 William Dally  
 2011 Gurindar Sohi  
 2012 Algirdas Avizienis  
 2013 James Goodman  
 2014 Trevor Mudge  
 2015 Norman Jouppi  
 2016 Uri Weiser  
 2017 Charles P. "Chuck" Thacker

## Past Recipients



2018 Susan Eggers  
2019 Mark Hill  
2020 Luiz André Barroso  
2021 Margaret Martonosi  
2022 Mark Horowitz  
2023 Kunle Olukotun

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

2009 Francine Berman  
2010 David J. Kuck  
2011 Susan L. Graham  
2012 Mary Lou Soffa  
2013 Jack Dongarra  
2014 Charles Leiserson  
2015 Katherine Yelick  
2016 William D Gropp  
2017 Jesús Labarta  
2018 Sarita Adve  
2019 Geoffrey Fox  
2020 Vivek Sarkar  
2021 David A. Abramson  
2022 Ian Foster  
2023 Keshav Pingali

### *SIAM-ACM Award in Computational Science and Engineering (Biennial)*

2003 John B. Bell  
2003 Phillip Colella  
2004 Achi Brandt  
2007 Chi-Wang Shu  
2009 Cleve Moler  
2011 J. Tinsley Oden  
2013 Linda Petzold  
2015 Sataish Balay  
2015 Jed Brown  
2015 William Gropp  
2015 Matthew Knepley

2015 Lois Curfman McInnes  
2015 Barry Smith  
2015 Hong Zhang  
2017 Thomas J. R. Hughes  
2019 Jack Dongarra  
2021 George Karniadakis  
2022 SUNDIALS Core  
Development Group

### *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  
2010 Joseph Mathai  
2010 Elaine Weyuker  
2013 Fabrizio Gagliardi  
2013 Yunhao Liu  
2013 P.J. Narayanan  
2014 Mehran Sahami  
2015 John R. White  
2016 Gerhard Schimpf  
2016 Chris Stephenson  
2017 Moshe Vardi  
2018 Don Gotterbarn  
2018 Andrew McGettrick  
2018 Fabrizio Gagliardi  
2019 Vinton G. Cerf  
2022 Dame Wendy Hall

### *ACM Athena Lecturer Award\**

2006 Deborah Estrin  
2007 Karen Spärck Jones  
2008 Shafira Goldwasser  
2009 Susan Eggers  
2010 Mary Jane Irwin  
2011 Judith S. Olson  
2012 Nancy Lynch  
2013 Katherine Yelick  
2014 Susan Dumais  
2015 Jennifer Widom  
2016 Jennifer Rexford  
2017 Lydia E. Kavraki  
2018 Andrea Goldsmith  
2019 Elisa Bertino  
2020 Sarit Kraus  
2021 Ayanna Howard  
2022 Eva Tardos  
2023 Margo Seltzer

*\* Formerly the ACM-W Athena Lecturer Award*

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 Serge Abiteboul  
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 Samson Abramsky  
 David A. Abramson  
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 James M. Adams  
 Leonard M. Adleman  
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 Sarita Adve  
 Vikram Adve  
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 Pankaj Agarwal  
 Charu Chandra Aggarwal  
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 Dharma P. Agrawal  
 Divyakant Agrawal  
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 Srinivas Aluru  
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 Krste Asanovic  
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 Suman Banerjee  
 Utpal Banerjee  
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 Boaz Barak  
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Paul Barham  
 Alan H. Barr  
 Luiz Andre Barroso  
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 Tracy Camp  
 Ran Canetti  
 John Canny  
 Srdjan Capkun  
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 Claire Cardie  
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 Justine Cassell  
 Edwin Catmull  
 Rick Cattell  
 Vinton Cerf  
 Stefano Ceri  
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 Krishnendu Chakrabarty  
 Donald Chamberlin  
 Timothy Chan  
 Ranveer Chandra  
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 B. Chandrasekaran  
 Kianianthra Mani Chandy  
 Edward Y. Chang  
 Naehyuck Chang  
 Shih Fu Chang  
 Yao-Wen Chang  
 Moses Charikar  
 Surajit Chaudhuri  
 Nitesh Chawla  
 Jennifer Chayes  
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 Chandra Chekuri \*  
 Ramalingam Chellappa  
 Haibo Chen \*  
 Ming-Syan Chen  
 Peter Chen  
 Peter P. Chen  
 Hsinchun Chen

Xilin Chen  
 Yingying (Jennifer) Chen \*  
 Yiran Chen  
 Ed H. Chi  
 Andrew A. Chien  
 Imrich Chlamtac  
 Alok Choudhary  
 Tanzeem Choudhury  
 Kenneth Ward Church \*  
 Elizabeth Frances Churchill  
 David D. Clark  
 Lori Clarke  
 Kenneth Clarkson  
 Ed Coffman  
 Edith Cohen  
 Michael F. Cohen  
 Philip R. Cohen  
 Daniel Cohen-Or  
 Richard J. Cole  
 George E. Collins  
 Dorin Comaniciu  
 Douglas E. Comer  
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 Robert Constable  
 Larry Constantine  
 Noshir Contractor  
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 Jon Crowcroft  
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 Gordon B. Davis  
 Larry S. Davis  
 Timothy Alden Davis  
 Umeshwar Dayal  
 Giuseppe De Giacomo  
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 Jack Dennis  
 Narsingh Deo  
 Mathieu Desbrun  
 L. Peter Deutsch  
 Srinivas Devadas  
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 David DeWitt  
 Anind Dey  
 Tamal K. Dey  
 Inderjit Dhillon

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 Whitfield Diffie  
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 Christophe Diot  
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 Susan T. Dumais  
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 Alan Edelman  
 Lieven Eeckhout  
 Susan Eggers  
 Thomas Eiter  
 Amr El Abbadi  
 Sebastian Elbaum  
 Faith Ellen  
 Chip Elliott  
 Carla S. Ellis  
 Clarence A. Ellis  
 Ahmed Elmagarmid  
 Joel Emer  
 Jose L. Encarnacao  
 Erwin Engeler  
 David Eppstein

Thomas D. Erickson  
 Michael D. Ernst  
 Paulo J. Esteves-Verissimo  
 Deborah Estrin  
 Ronald Fagin  
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