

ACM

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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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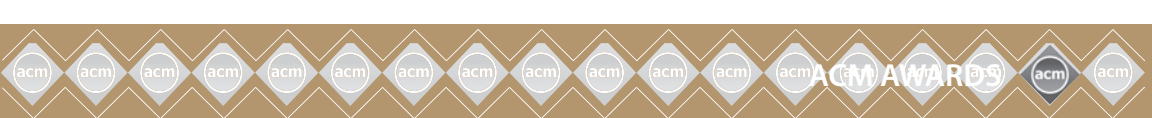


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A.M. Turing Award



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.



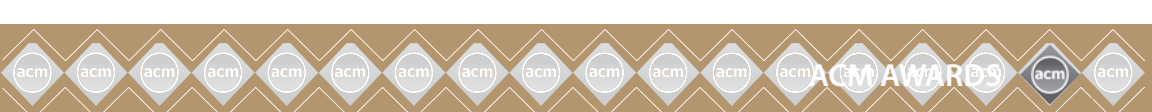
Gabriele Farina
Massachusetts Institute
of Technology



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.

- 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 Snavelly, 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

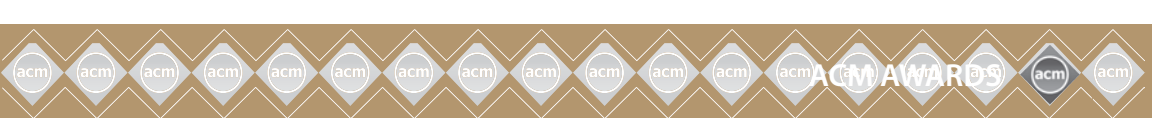
The ACM Charles P. “Chuck” Thacker Breakthrough in Computing Award recognizes individuals or groups who have made surprising, disruptive, or leapfrog contributions to computing ideas or technologies. Recipients of the award are expected to give the ACM Breakthrough Lecture at a major ACM conference.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

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.

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.

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 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).

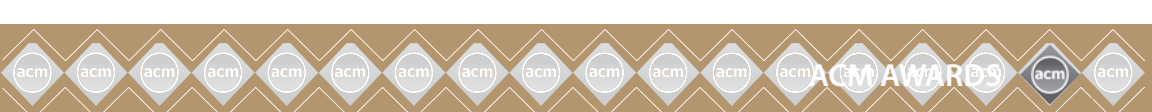
The Gordon Bell Prize recognizes outstanding achievement in high-performance computing. The purpose is to track the progress of parallel computing with particular emphasis on rewarding innovation in applying high performance computing to applications in science. The award, presented during the annual SC Conference, includes \$10,000 in prize money. The prize is endowed by Gordon Bell, a pioneer in high-performance and parallel computing.

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.

ACM India Outstanding Contributions in Computing by a Woman

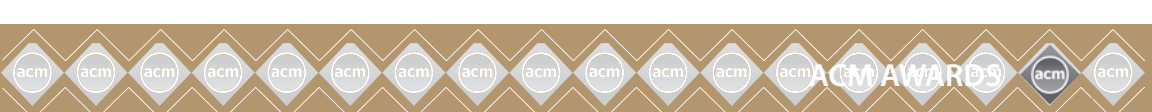


Nutan Limaye

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.

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>

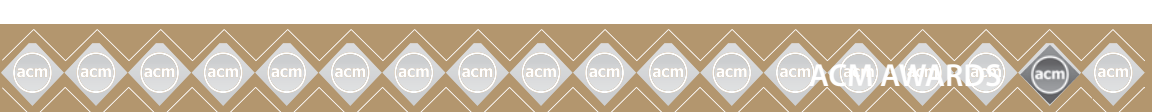
Please visit awards.acm.org, for additional details about the ACM awards program, or contact:

Jade Morris
ACM Awards Committee Liaison
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.



2023 ACM Award Subcommittee Chairs and Members



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Monika Henzinger

Norm Jouppi

Stuart Russell

Margo Seltzer

Luca Trevisan

Manuela Veloso

Jeannette Wing

ACM Prize in Computing

Shwetak Patel

University of Washington
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Members:

Peter Druschel

Jasmin Fisher

Sham Kakade

Ravi Kannan

Zhengyou Zhang

Frances E. Allen Award for Outstanding Mentoring

Mary Jane Irwin

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Carla Brodley

Ron Cytron

William Robinson

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Beth Mynatt

Fernando Pereira

Yoav Shoham

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Theo Schlossnagle

Kelly Shortridge

Lidong Zhou

Grace Murray Hopper

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Youla Fatorou

Jelani Nelson

Timothy Pinkston

Paris Kanellakis Theory and Practice

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Corinna Cortez

Sergey Yekhanin

Karl V. Karlstrom

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Vicki Almstrum

Tim Bell

Jan Vahrenhold

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Manuel Perez-Quinones

Radia Perlman

Len Shustek

Outstanding Contribution to ACM

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Chris Hankin

Mukund Madhavan

Jane Prey

ACM Athena Lecturer

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Arati Dixit

Srinivasan Seshan

ACM Policy

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Purdue University
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Members:

Laura DeNardis

Juan Gilbert

Bran Knowles

Gerhard Schimpf

Doctoral Dissertation

Nate Foster

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2023 ACM Award Subcommittee Chairs and Members



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Gustavo Alonso
Mohit Bansal
Scott Hudson
Michael Isard
Krysta Svore
Ryan Williams
Mary Wootters
Holly Yanco

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ELLIS Alicant Foundation
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Michael Franklin
Paola Inverardi
Charles Isbell
Anna Karlin
Gene Myers
Bernhard Nebel
Adrian Perrig
Frank Pfenning
Holly Rushmeier

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Cristian Cadar
Tanzeem Choudhury
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Kumaraguru
Fatma Ozcan
Ingrid Russell
Sudeep Sarkar
Kaisa Väänänen

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Steve Reinhardt

IEEE CS Members:
David Kaeli
Steve Keckler
Peh Li-Shiuan

ACM – IEEE CS Ken Kennedy

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Daniel Reed
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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

Members:
Ilkay Altintas
Jack Dongarra
Ian Foster
Satoshi Matsuoka

Regeneron International Science and Engineering Fair

Tom Yeh
Colorado University
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
Charles P. Thacker | Ronald M. Kaplan
Larry Masinter
Warren Teitelman | Shaowen Su
Thomas Y.C. Woo |
| 1985 VisiCalc
Daniel Bricklin
Robert Frankston | 1993 Sketchpad
Ivan Sutherland | 2005 Boyer-Moore
Theorem Prover
Robert S. Boyer
Matt Kaufmann
J Strother Moore |
| 1986 TeX
Donald E. Knuth | 1994 Remote Procedure Call
Andrew Birrell
Bruce Nelson | 2006 Eiffel
Bertrand Meyer |
| 1987 SMALLTALK
Alan C. Kay
Daniel H.H. Ingalls, Jr.
Adele Goldberg | 1995 World-WideWeb
Tim Berners-Lee
Robert Cailliau | 2007 Statemate
David Harel
Hagi Lachover
Amnon Naamad
Amir Pnueli
Michal Politi
Rivi Sherman
Mark Trakhtenbrot
Aron Trauring |
| 1988 SystemR
Donald Chamberlin
James Gray
Raymond Lorie
Gianfranco Putzolu
Patricia Selinger
Irving Traiger | 1995 NCSA Mosaic
Marc Andreessen
Eric Bina | 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 |
| 1988 INGRES
Gerald Held
Michael Stonebraker
Eugene Wong | 1996 no award given | 2009 VMware Workstation 1.0
Edouard Bugnion
Scott Devine
Mendel Rosenblum
Jeremy Sugarman
Edward Wang |
| 1989 PostScript
John E. Warnock
Charles M. Geschke
William H. Paxton
Douglas K. Brotz
Edward A. Taft | 1997 Tcl/tk
John Ousterhout | 2010 GroupLens
Collaborative Filtering |
| 1990 NLS
Douglas C. Engelbart
William K. English
Johns F. Rulifson | 1998 S System
John M. Chambers | |
| 1991 TCP/IP
Vinton G. Cerf
Robert E. Kahn | 1999 Apache
Brian Behlendorf
Roy T. Fielding
Rob Hartill
David Robinson
Cliff Skolnick
Randy Terbush
Robert S. Thau
Andrew Wilson | |
| 1992 Interlisp
Daniel G. Bobrov
Richard R. Burton
L. Peter Deutsch | 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 | |

Past Recipients



- | | | |
|---|---|--|
| <p>Recommender Systems
 Peter Bergstrom
 Lee Gordon
 Jonathan Herlocker
 Neophytos Iacovou
 Joseph A. Konstan
 Shyong (Tony) Lam
 David Maltz
 Sean McNee
 Bradley Miller
 Paul Resnick
 John Riedl
 Mitesh Suchak</p> | <p>2014 MACH
 Rick Rashid
 Avadis (Avie) Tevanian</p> <p>2015 GCC (GNU Compiler Collection)
 Richard Stallman</p> <p>2016 Andrew File System (AFS)
 John H. Howard
 Michael L. Kazar
 David A. Nichols
 Sherri M. Nichols
 Mahadev Satyanarayanan
 Robert N. Sidebotham
 Alfred Z. Spector
 Michael J. West (posthumously)</p> <p>2017 Project Jupyter
 Fernando Pérez
 Brian E. Granger
 Min Ragan-Kelley
 Paul Ivanov
 Thomas Kluyver
 Jason Grout
 Matthias Bussonnier
 Damián Avila
 Steven Silvester
 Jonathan Frederic
 Kyle Kelley
 Jessica Hamrick
 Carol Willing
 Sylvain Corlay
 Peter Parente</p> <p>2018 Wireshark
 Fernando Pérez</p> <p>2019 DNS
 Paul Mockapetris</p> <p>2020 Berkeley DB</p> | <p>Keith Bostic
 Michael Olson
 Margo Seltzer</p> <p>2021 CompCert
 Sandrine Blazy
 Zaynah Dargaye
 Jacques-Henri Jourdan
 Xavier Leroy
 Michael Schmidt
 Bernhard Schommer
 Jean-Baptiste Tristan</p> <p>2022 seL4 microkernel
 Gernot Heiser
 Gerwin Klein
 Harvey Tuch
 Kevin Elphinstone
 June Andronick
 David Cock
 Philip Derrin
 Dhammika Elkaduwe
 Kai Engelhardt
 Toby Murray
 Rafal Kolanski
 Michael Norrish
 Thomas Sewell
 Simon Winwood</p> <p><i>Programming Systems and Languages Paper Award*</i></p> <p>1971 Peter Lucas
 Kurt Walk</p> <p>1971 Peter J. Denning</p> <p>1971 Edsger W. Dijkstra</p> <p>1971 Jan Gecsei
 Richard L. Mattson
 Donald R. Slutz
 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
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- 1987 Frederick P. Brooks, Jr.
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- 1994 no award given
- 1995 Doris Lidtke
- 1996 Hal Berghel
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- 1998 no award given
- 1999 Anita Borg
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