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 2022 awards, which are being presented at the ACM Awards Banquet on June 10, 2023, 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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The A.M. Turing Award is presented to Robert M. Metcalfe for the invention, standardization, and commercialization of Ethernet.

In 1973, while a computer scientist at the Xerox Palo Alto Research Center (PARC), Metcalfe circulated a now-famous memo describing a “broadcast communication network” for connecting some of the first personal computers, PARC’s Altos, within a building. Metcalfe’s Ethernet design incorporated insights from his experience with ALOHAnet, a pioneering computer networking system developed at the University of Hawaii. Metcalfe recruited David Boggs (d. 2022), a co-inventor of Ethernet, to help build a 100-node PARC Ethernet. That first Ethernet was then replicated within Xerox to proliferate a corporate internet.

After leaving Xerox in 1979, Metcalfe remained the chief evangelist for Ethernet and continued to guide its development while working to ensure industry adoption of an open standard. He led an effort by Digital Equipment Corporation (DEC), Intel, and Xerox to develop a 10Mbps Ethernet specification—the DIX standard. The IEEE 802 committee was formed to establish a local area network (LAN) standard. A slight variant of DIX became the first IEEE 802.3 standard, which is still vibrant today.

Today, Ethernet is the main conduit of wired network communications around the world, handling data rates from 10 Mbps to 400 Gbps, with 800 Gbps and 1.6 Tbps technologies emerging.

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.
The ACM Prize in Computing is presented to Yael Tauman Kalai for breakthroughs in verifiable delegation of computation and fundamental contributions to cryptography.

Kalai has developed methods for producing succinct proofs that certify the correctness of any computation. This method enables a weak device to offload any computation to a stronger device in a way that enables the results to be efficiently checked for correctness. Such succinct proofs have been used by numerous blockchain companies (including Ethereum) to certify transaction validity and thereby overcome key obstacles in blockchain scalability, enabling faster and more reliable transactions. Kalai’s research has provided essential definitions, key concepts, and inventive techniques to this domain.

Kalai’s other important contributions include her breakthrough work on the security of the “Fiat-Shamir paradigm,” a general technique for eliminating interaction from interactive protocols. This paradigm is extensively utilized in real-world applications, including in the most prevalent digital signature scheme (ECDSA), which is used by all iOS and Android mobile devices. In addition, she co-pioneered the field of leakage resilient cryptography and solved a long-standing open problem in interactive coding theory, showing how to convert any interactive protocol into one that is resilient to a constant fraction of adversarial errors.

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.
The ACM Charles P. “Chuck” Thacker Breakthrough in Computing Award is presented to David B. Papworth. Papworth is recognized for fundamental groundbreaking contributions to Intel's P6 out-of-order engine and Very Long Instruction Word (VLIW) processors.

Papworth was a lead designer of the Intel P6 (sold commercially as the Pentium Pro) microprocessor, which was a major advancement over the existing state-of-the-art not just for Intel but for the broader computer design community. P6 introduced a new microarchitectural paradigm of decomposing complex x86 instructions into sequences of micro-operations that flowed through a micro data flow engine, constrained only by true data dependencies and machine resources. Surprising to many, this scheme, which is still in use today, also enabled significantly higher clock rates.

The P6 team successfully navigated the thousands of design tradeoffs required of a modern processor in a timely way while striking competitive balances among cost, performance, power, and schedule. That P6 was a runaway success for Intel is clear in that Intel's cores today, 30+ years later, still use the same paradigm along with many of the architectural improvements shepherded by Papworth in 1992.

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.
Schölkopf is recognized for his widely used research in machine learning, advancing both mathematical foundations and a broad range of applications in science and industry. He has made fundamental contributions to kernel methods and causality. His contributions to kernel PCA and kernel embeddings have advanced fundamental statistical methodology in dimensionality reduction and hypothesis testing. Professor Schölkopf and his team have advanced numerous areas of applied machine learning, including applications to astronomy, biology, computer vision, robotics, neuroscience, and cognitive science. Schölkopf’s pioneering work in causal machine learning has laid the foundation for a novel understanding of learning causal relationships from data, with implications for all areas of science.

Russell is recognized for a series of foundational contributions to Artificial Intelligence, spanning a wide range of areas such as logical and probabilistic reasoning, knowledge representation, machine learning, reinforcement learning, and the ethics of AI. Early in his career, Russell defined and studied the concept of bounded optimality, for which he received the 1995 IJCAI Computers and Thought Award. His book, *Artificial Intelligence: A Modern Approach* (co-authored with Peter Norvig), is the preeminent textbook for AI. It has been used for decades to train AI students in more than 1,500 universities all over the world. Russell’s work on BLOG (Bayesian Logic) led to the creation of the NETVISA global seismic monitoring algorithm that has the capability to reliably detect and accurately localize nuclear explosions. In recent years he has also become an influential figure in addressing ethical issues in AI.

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.
An international team receives the ACM Software System Award for the development of the first industrial-strength, high-performance operating system to have been the subject of a complete, mechanically-checked proof of full functional correctness.

In 2009, the Software System Awardees presented the seL4 microkernel, which became the first ever industrial-strength, general-purpose operating system with formally proved implementation correctness. In subsequent years, the team further added proofs that seL4 enforces the core security properties of integrity and confidentiality, extended the proof to the binary code of the kernel, and performed the first sound and complete worst-case execution-time analysis of a protected mode OS.

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.
Mohammad Alizadeh, Massachusetts Institute of Technology, is the recipient of the 2022 ACM Grace Murray Hopper Award for pioneering and impactful contributions to datacenter networks.

Alizadeh has fundamentally advanced how datacenters communicate efficiently in transporting data. One of his key contributions is the control of datacenter network congestion and packet loss with a groundbreaking Data Center Transport Control Protocol (DCTCP). DCTCP significantly increases performance in datacenter environments where state-of-the-art TCP protocols fall short.

The theoretical foundation upon which DCTCP is built and the empirical analyses, novel algorithms, and explicit congestion notification techniques it leverages enable data packets to circumvent congestion while using significantly less buffer space. In essence, DCTCP changes the way that network endpoints process congestion signals obtained from within the network, enabling traffic bursts to be tolerated better and leading to reduced transport latency, higher data throughput, and greater network utilization.

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.
Paris Kanellakis Theory and Practice Award

Michael Burrows, Google; Paolo Ferragina, University of Pisa; and Giovanni Manzini, University of Pisa, receive the ACM Paris Kanellakis Theory and Practice Award for inventing the BW-transform and the FM-index that opened and influenced the field of Compressed Data Structures with fundamental impact on Data Compression and Computational Biology.

In 1994, Michael Burrows and his late coauthor David Wheeler published their paper describing revolutionary data compression algorithm based on a reversible transformation of the input. This transformation, which became known as the “Burrows-Wheeler Transform” (BWT), was used as the core of the compressor bzip2. bzip2 achieved compression performance superior to the standard of the time.

A few years later, Paolo Ferragina and Giovanni Manzini showed that, by orchestrating the BWT with a new set of mathematical techniques and algorithmic tools, it became possible to build a “compressed index,” later called the FM-index. Before the FM-index, it seemed unavoidable to incur a significant space penalty for achieving efficient queries. With the FM-index, Ferragina and Manzini were able to disprove this common belief. In addition to being a theoretical breakthrough, the simplicity and effectiveness of the FM-index has made it a premier indexing choice for software tools working on large collections of unstructured data, with the most impressive applications in the field of DNA alignment and Computational Biology in general.

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

Jelani Nelson
University of California
at Berkeley

Jelani Nelson of the University of California at Berkeley receives the ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics for founding and growing AddisCoder, a nonprofit organization which teaches programming to underserved students from all over Ethiopia. AddisCoder has led many students to higher education and successful careers.

In 2011, Nelson founded AddisCoder to provide a free intensive summer program for high school students in Addis Ababa, Ethiopia. The program has shown exemplary efficacy in fostering the academic and professional development of over 500 high school students. AddisCoder’s student body is 40% female, includes students from each of the 11 eleven regions in Ethiopia, students from ethnic minorities, and students living in poverty.

Upon joining the program, many of the participating students have little or no background in programming or algorithms. In just four short weeks, the students gain significant knowledge. The program rigorously covers college-level material in algorithms, such as binary search and sorting, dynamic programming, and graph exploration. Alumni have matriculated in programs at universities including Harvard, MIT, and Princeton, and some students have joined well-known companies such as Google.

Nelson has not only been an AddisCoder teacher himself, but he has recruited a large team of teachers and raised money from government, industry and academic institutions to fund the initiative. He is currently working to expand the program to other underserved regions of the world.

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.
Michael E. Caspersen, Managing Director of It-vest and Honorary Professor, Aarhus University, receives the Karl V. Karlstrom Outstanding Educator Award for his contributions to computer science education research, for his policy work at the national and international levels to advance the teaching of informatics for all, and for his outstanding service to the computing education community.

Caspersen has almost 70 papers on computer science education. He is co-author of a two-volume textbook on programming, and co-editor of Reflections on the Teaching of Programming, published by Springer-Verlag, 2008—a novel and innovative collection of contributions that address all aspects of teaching programming.

Since 2008, Caspersen has been heavily involved in the development of the new informatics subject for Danish high schools and associated teacher education. By personal invitation of the Minister of Education he has served in pivotal roles as chair and co-chair of groups developing an informatics curriculum for primary and lower secondary education.

He is a member of the Board of Informatics Europe, co-founder and chair of the steering committee for the Informatics for All coalition, and he was Co-Chair of the Committee on European Computing Education established jointly by ACM Europe and Informatics Europe.

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.
Ramesh Jain, Professor, University of California, Irvine, receives the ACM Distinguished Service Award for establishing the ACM Special Interest Group on Multimedia Systems (ACM SIGMM), and for outstanding leadership and persistent services to ACM and the computing community for the past four decades.

In 1993, Jain organized the first NSF workshop on visual information management systems, was one of the organizing committee members of the first ACM Multimedia conference, and gave a tutorial at that conference which was held in conjunction with ACM SIGGRAPH that year. All of these activities paved the way for the successful establishment of ACM SIGMM.

Since then, Jain remains an active contributor to ACM Multimedia Computing. He has been on the organizing committees of almost all the past 25 ACM Multimedia Conferences. Additionally, he organized special issues of Communications of the ACM on visual computing, served as founding editor-in-chief of IEEE Multimedia magazine, organized numerous workshops, served on editorial boards of almost all multimedia-related journals, and helped ACM SIGMM in many ways, including chairing it from 2003 to 2007.

For his contributions and service, Jain has received numerous awards, and has been recognized as a Fellow of the Association for Computing Machinery (ACM), the American Association for the Advancement of Science (AAAS), Association for the Advancement of Artificial Intelligence (AAAI), Institute of Electrical and Electronics Engineers (IEEE), the international society for optics and photonics (SPIE), and the International Association of Pattern Recognition (IAPR).

The Distinguished Service Award is given on the basis of value and degree of service to the computing community. The contributions are not limited to service to the Association, and should include activities in other computer organizations and should emphasize contributions to the computing community at large.
Joseph A. Konstan, Professor, University of Minnesota, receives the Outstanding Contribution to ACM Award for twenty-five years of dedicated service and leadership in support of ACM's mission and operation, and the advancement of ACM's research, education, and practitioner communities.

Konstan has been involved in ACM's activities for over 25 years: participating in, developing and nurturing new technical areas, serving on key task forces and committees, and leading several of ACM’s major Boards and working groups. He has demonstrated a volunteer spirit that has been an example and inspiration for others who have had the opportunity to work with him. His long involvement in and deep insight into ACM’s operation and governance has made him a trusted source of advice for ACM’s elected leadership, volunteers, and staff.

Konstan’s service started in 1994 within ACM SIGCHI's conferences, eventually becoming SIGCHI’s President (2003-2006) and chair of the SIG Governing Board (2006-2008) and as a member of ACM’s Executive Committee. During that time, he served on a task force on the future of ACM-W.

As co-chair of the Publications Board (2013-2022), Konstan served on ACM's Extended Executive Committee, providing insightful advice and recommendations to the elected leadership. In that regard, he served on ACM's Strategic Planning Workgroup (2013–2014), which set the priorities and roadmap for ACM’s continued growth and development. He also served on the task force on the future of the Journal of the ACM, chaired the task force on ACM's future directions in Health and Medical Informatics, and ACM's Strategic Planning Working Group.

Konstan is hailed by colleagues for his efforts to bring people together to make the best decisions for ACM and the communities it serves. His many contributions to ACM have been, and no doubt will continue to be, outstanding.

The Outstanding Contribution to ACM Award recognizes outstanding service contributions to the Association. Candidates are selected based on the value and degree of service overall, and may be given to up to three individuals each year.
Margo Seltzer, a Professor at the University of British Columbia, has been named the 2023-2024 ACM Athena Lecturer. Seltzer is recognized for foundational research in file and storage systems, pioneering research in data provenance, impactful software contributions in Berkeley DB, and tireless dedication to service and mentoring.

In 1992, while studying at the University of California at Berkeley, Seltzer, along with Keith Bostic and Mike Olson, introduced Berkeley DB, a database software library. Berkeley DB underpinned a range of first-generation Internet services including account management, mail servers, and online trading platforms. This software has been a part of many popular operating systems including Linux, FreeBSD, Apple's OSX, and the GNU standard C library (glibc). Originally developed as an open-source library, Seltzer and Bostic founded Sleepycat Software in 1996 to continue the development of Berkeley DB and provide commercial support. Berkeley DB was an early and influential example of the NoSQL movement and pioneered the “dual license” approach to software licensing.

Seltzer later pioneered whole-system data provenance, a paradigm that provides system support for assessing the quality of information by understanding where the data comes from, who is using the data, and how it was obtained. She is also known for her careful and nuanced work in log-structured file systems, where she adapted various approaches for use in the UNIX file systems and updates of file system metadata.

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.
The Doctoral Dissertation Award is presented to Aayush Jain for his dissertation “Indistinguishability Obfuscation from Well-Studied Assumptions,” toward a PhD earned at the University of California, Los Angeles.

Honorable Mentions for the Doctoral Dissertation Award are presented to: Alane Suhr, for her dissertation “Reasoning and Learning in Interactive Natural Language Systems,” toward a PhD earned at Cornell University; and Conrad Watt, for his dissertation, “Mechanising and evolving the formal semantics of WebAssembly: the Web’s new low-level language” toward a PhD earned at The University of Cambridge.

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 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 2022 Fellows are listed below. A complete listing is on pages 41-51, and awards.acm.org/fellows.

Maneesh Agrawala, Stanford University  
Anima Anandkumar, California Institute of Technology  
David Atienza Alonso, EPFL  
Boaz Barak, Harvard University  
Michel Beaudouin-Lafon, Université Paris-Saclay  
Peter Boncz, Centrum Wiskunde & Informatica (CWI), Vrije Universiteit Amsterdam  
Luis H. Ceze, University of Washington  
Ranveer Chandra, Microsoft  
Nitesh Chawla, University of Notre Dame  
Ed H. Chi, Google  
Corinna Cortes, Google  
Bill Curtis, CAST Software/Consortium for Information and Software Quality (CISQ)  
Constantinos Daskalakis, Massachusetts Institute of Technology  
Kalyanmoy Deb, Michigan State University  
Bronis R. de Supinski, Lawrence Livermore National Laboratory  
Sebastian Elbaum, University of Virginia  
Yuguang “Michael” Fang, City University of Hong Kong  
Kevin Fu, Northeastern University  
Craig Gotsman, New Jersey Institute of Technology  
Ahmed E. Hassan, Queen’s University  
Abdelsalam (Sumi) Helal, University of Florida  
Jörg Henkel, Karlsruhe Institute of Technology  
Manuel V. Hermenegildo, Universidad Politecnica de Madrid & IMDEA SW Institute  
Michael Hicks, University of Maryland, Amazon Web Services  
Torsten Hoefler, ETH Zurich  
Jason Hong, Carnegie Mellon University  
Sandy Irani, University of California, Irvine  
Hiroshi Ishii, MIT Media Lab  
Alfons Kemper, Technical University of Munich  
Samir Khuller, Northwestern University  
Farinaz Koushanfar, University of California, San Diego  
C.-C. Jay Kuo, University of Southern California  
Hang Li, Bytedance  
Jimmy Lin, University of Waterloo  
Radu Marculescu, The University of Texas at Austin  
Hong Me, Peking University  
David M. Mount, University of Maryland at College Park  
Gonzalo Navarro, University of Chile  
Rafael Pass, Cornell University, Tel-Aviv University  
Marc Pollefeys, ETH Zurich, Microsoft  
Alex Pothern, Purdue University  
Moinuddin Qureshi, Georgia Institute of Technology  
Ashutosh Sabharwal, Rice University  
Timothy Sherwood, University of California, Santa Barbara  
Stefano Soatto, University of California, Los Angeles  
John T. Stasko, Georgia Institute of Technology  
Zhendong Su, ETH Zurich  
Gary J. Sullivan, Microsoft  
Jaime Teevan, Microsoft  
Kentaro Toyama, University of Michigan  
Rene Vidal, Johns Hopkins University, University of Pennsylvania  
Eric Xing, Carnegie Mellon University, Mohamed bin Zayed University of Artificial Intelligence  
Dong Yu, Tencent  
Yizhou Yu, University of Hong Kong  
Haitao (Heather) Zheng, The University of Chicago  
Wenwu Zhu, Tsinghua University  
Denis Zorin, New York University
Additional Awards

ACM Frances E. Allen Award for Outstanding Mentoring

The ACM Frances E. Allen Award for Outstanding Mentoring will be 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. Allen, who was the first woman to receive the ACM A.M. Turing Award, was 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. The next honoree will be recognized in 2024.

ACM Policy Award

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. The next honoree will be recognized in 2024.
ACM – IEEE CS Eckert-Mauchly Award

Mark Horowitz
Stanford University

ACM and IEEE Computer Society named Mark Horowitz, a Professor at Stanford University, as the recipient of the 2022 Eckert-Mauchly Award for contributions to microprocessor memory systems. Horowitz was the first to identify the processor to dynamic random-access memory (DRAM) interface as a key bottleneck that required architecture and circuit optimization. He pioneered high-bandwidth DRAM interfaces. In addition, modern DRAM interfaces such as SDDR and LPDDR were strongly influenced by his techniques.

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

Ian Foster
University of Chicago

ACM and IEEE Computer Society have named Ian Foster, a Professor at the University of Chicago and Division Director at Argonne National Laboratory, as the recipient of the 2022 ACM-IEEE CS Ken Kennedy Award. Foster is cited for contributions to programming and productivity in computing via the establishment of new programming models and foundational science services.

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 Fellowships

Marcin Copik of ETH Zurich and Masado Alexander Ishii of the University of Utah are the recipients of the 2022 ACM-IEEE CS George Michael Memorial HPC Fellowships. Shelby Lockhart of the University of Illinois at Urbana-Champaign received an Honorable Mention.

Copik is recognized for incorporating the Function-as-a-Service programming model into HPC applications and bringing high-performance into serverless to cut costs and increase efficiency of supercomputing. Ishii is recognized for developing lightweight, dimension-parameterized, parallel meshing algorithms with a focus on scalability and improving total time-to-solution for engineering applications. Lockhart is recognized for contributions in scalable iterative solvers using node-aware communication and low synchronization algorithms to reduce communication bottlenecks on supercomputers.

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.
SIAM/ACM Award in Computational Science and Engineering

SUNDIALS Core Development Group

The SUNDIALS Core Development Group, consisting of Carol S. Woodward, Cody J. Balos, Peter N. Brown, David J. Gardner, Alan C. Hindmarsh, Daniel R. Reynolds, and Radu Serban, are the 2023 recipients of the SIAM/ACM Prize in Computational Science and Engineering. The group received the award for innovative research and development of nonlinear and differential/algebraic equation solvers for high-performance computing that provides unique, critical capabilities in the scientific software ecosystem.

The SIAM/ACM Prize in Computational Science and Engineering is awarded every two years by SIAM and ACM in the area of computational science to one individual or a group of individuals in recognition of outstanding contributions to the development and use of mathematical and computational tools and methods for the solution of science and engineering problems.

ACM/CSTA Cutler-Bell Prize in High School Computing

Okezue Bell
Moravian Academy (PA)

Nathan Elias
Liberal Arts and Science Academy (TX)

Hannah Guan
Basis San Antonio Shavano (TX)

Sirihaasa Nallamothu
University High School (IL)

The Cutler-Bell Prize recipients will be formally recognized at the Computer Science Teachers Association’s annual conference which will be held virtually in July of 2023.

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

A 16-member team drawn from French, Japanese, and US institutions were named as recipients of the 2022 ACM Gordon Bell Prize for their project, “Pushing the Frontier in the Design of Laser-Based Electron Accelerators With Groundbreaking Mesh-Refined Particle-In-Cell Simulations on Exascale-Class Supercomputers.”

The members of the team are: Luca Fedeli (Université Paris-Saclay), Alex Huebl (Lawrence Berkeley National Laboratory), France Boillod-Cerneaux (Université Paris-Saclay), Thomas Clark (Université Paris-Saclay), Kevin Gott (Lawrence Berkeley National Laboratory), Conrad Hillairet (Arm), Stephan Jaure (ATOS), Adrien Leblanc (Laboratoire d’Optique Appliquée, ENSTA Paris), Remi Lehe (Lawrence Berkeley National Laboratory), Andrew Myers (Lawrence Berkeley National Laboratory), Christelle Piechurski (GENCI), Mitsuhisa Sato (RIKEN), Neil Zaïm (Université Paris-Saclay), Weiqun Zhang (Lawrence Berkeley National Laboratory), Jean-Luc Vay (Lawrence Berkeley National Laboratory), and Henri Vincenti (Université Paris-Saclay).

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 Special Prize for High-Performance-Based COVID-19 Research Award

The 2022 ACM Gordon Bell Special Prize for High Performance Computing-Based COVID-19 Research was awarded to an international team for their project “GenSLMs: Genome-Scale Language Models Reveal SARS-CoV-2 Evolutionary Dynamics.” The prize recognizes outstanding research achievement toward the understanding of the COVID-19 pandemic through the use of high-performance computing.

The winning team members are Maxim Zvyagin, Alexander Brace, Kyle Hippe, Yuntian Deng, Bin Zhang, Cindy Orozco Bohorquez, Austin Clyde, Bharat Kale, Danilo Perez-Rivera, Heng Ma, Carla M. Mann, Michael Irvin, J. Gregory Pauloski, Logan Ward, Valerie Hayot, Murali Emani, Sam Foreman, Zhen Xie, Diangen Lin, Maulik Shukla, Weili Nie, Josh Romero, Christian Dallago, Arash Vahdat, Chaowei Xiao, Thomas Gibbs, Ian Foster, James J. Davis, Michael E. Papka, Thomas Brettin, Rick Stevens, Anima Anandkumar, Venkatram Vishwanath, and Arvind Ramanathan.

The prize was awarded to recognize outstanding research achievement toward the understanding of the COVID-19 pandemic through the use of high performance computing (HPC). A cash prize in the amount of $10,000 accompanies the award, which was conceived and funded by Gordon Bell, a pioneer in high performance computing and researcher emeritus at Microsoft Research.
Christina Harrington is the recipient of the CRA Skip Ellis Early Career Award. Harrington is an Assistant Professor at Carnegie Mellon University in the HCI Institute in the School of Computer Science with a courtesy appointment in the School of Design.

Harrington’s research addresses health and racial equity through human-computer interaction and design research approaches where she explores and co-design technologies to support the needs of historically marginalized groups. Harrington has worked for over a decade to implement technological interventions for Black and Brown individuals and those with disabilities and impairments in areas of community health advocacy, health information seeking, and community design of technology futures. Harrington has published work at premier HCI venues and won best paper and honorable mention awards for her work on equitable participatory design with Black elders and Black youth. She has presented her work at academic institutions, government agencies, and industry seminars.

The CRA Skip Ellis Early Career Award is in honor of Clarence “Skip” Ellis, the first African-American to earn a PhD in computer science and the first African-American to be elected a Fellow of the ACM. This annual award is given to a person who identifies as a member of a group underrepresented in computing (African-American, Latinx, Native American/First Peoples, and/or People with Disabilities), who has made significant research contributions in computer science and/or engineering and has also contributed to the profession, especially in outreach to underrepresented populations.
The Education Committee of the Computing Research Association (CRA) is pleased to announce that Yi-Chieh (Jessica) Wu, William Wang, and Nanette Veilleux are recipients of the CRA-E Undergraduate Research Faculty Mentoring Award.

Wu develops and applies computational and mathematical models to study evolutionary biology. Her passion for undergraduate research mentoring extends beyond her own research program by empowering other faculty to become better undergraduate research mentors. She has mentored 29 undergraduate research students since joining the Harvey Mudd faculty in 2014, 28 of whom have already graduated and 10 of whom have gone on to PhD programs at schools including MIT, UC Berkeley, University of Washington, and Penn, among others. A total of 18 students were co-authors on nine distinct papers, some of which appear in the top venues in computational biology.

Wang’s research interests include Mind and Machine Intelligence, as well as Natural Language Processing. He has mentored over 60 undergraduate students at UCSB, including 13 female and under-represented students. Among those, 32 mentored students entered a graduate research program in computing, and 12 were enrolled into top PhD programs at Carnegie Mellon, UIUC, Duke, ETH, Michigan, UPenn, UCSB, and USC. His undergraduate students have received major awards, including two Chancellor’s Awards for Excellence in Undergraduate Research, and three CRA Outstanding Undergraduate Researcher Award finalists.

Veilleux’s research interests include primary research in computational models of speech, as well as investigations of pedagogical methods in STEM education. Veilleux has mentored over 450 undergraduate students at Simmons. Among those, 15 mentored students entered graduate research programs at Rice University, Northeastern University, Boston University, Brandeis, Dartmouth and London School of Economics and Political Science among others.

The CRA-E Undergraduate Research Faculty Mentoring Award recognizes individual faculty members who have provided exceptional mentorship, undergraduate research experiences, and, in parallel, guidance on admission and matriculation of these students to research-focused graduate programs in computing.
ACM Regional Awards

ACM India Doctoral Dissertation Award

Siddharth Sandipkumar Bhandari
Tata Institute of Fundamental Research, Mumbai

Siddharth Sandipkumar Bhandari is the recipient of the ACM India Council’s 2022 Doctoral Dissertation Award for his dissertation titled “Exact Sampling and List Decoding.” His dissertation was cited for developing new techniques and tools in sampling graph colourings and contributes to improved analyses for understanding list-decodability of codes.

Pritish Mohapatra
International Institute of Information Technology, Hyderabad

Sruthi Sekar
Indian Institute of Science, Bangalore

Deepika Yadav
Indraprastha Institute of Information Technology, Delhi

Pritish Mohapatra is co-recipient of the Honorable Mention of the ACM India Council’s 2022 Doctoral Dissertation Award for his dissertation titled “Optimization for and by Machine Learning.”

Sruthi Sekar is co-recipient of the Honorable Mention of the ACM India Council’s 2022 Doctoral Dissertation Award for her dissertation titled “Near-Optimal Non-Malleable Codes and Leakage Resilient Secret Sharing Schemes.”

Deepika Yadav is co-recipient of the Honorable Mention of the ACM India Council’s 2022 Doctoral Dissertation Award for her dissertation titled “Supporting Ongoing Training of Community Health Workers through Mobile-based Solutions in Rural India.”

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

Partha Pratim Talukdar
Google Research India
Indian Institute of Science (IISc), Bangalore

The ACM India Council has named Partha Pratim Talukdar, from Google Research India and CDS Department IISc Bangalore, as the recipient of the 2022 ACM India Early Career Researcher Award (ECR) for combining deep scholarship of natural language processing (NLP), graphical knowledge representation, and machine learning to solve problems of great contemporary relevance. He is the most recognized and accomplished young emissary from India to the worldwide NLP community.

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

Shweta Agrawal
Indian Institute of Technology, Madras (IITM)

Shweta Agrawal is the recipient of the 2022 ACM India Outstanding Contributions in Computing by a Woman (OCCW) Award. She is recognized for her outstanding contributions to the field of cryptography and her dedication to mentoring women in science and technology.

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

Smruti Ranjan Sarangi
Indian Institute of Technology, Delhi

Smruti Ranjan Sarangi of Indian Institute of Technology, Delhi is the recipient of 2022 ACM India Outstanding Contribution to Computing Education (OCCE) Award for extensive contributions to the computer architecture community in terms of writing textbooks, remote teaching, and development of educational software.

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.

IPSJ/ACM Award for Early Career Contributions to Global Research

Manato Fujimoto
Osaka Metropolitan University

The IPSJ/ACM Award for Early Career Contributions to Global Research is presented to Manato Fujimoto, Osaka Metropolitan University, for his contributions to research related to “Ubiquitous Computing Systems” for the realization of Society 5.0. Fujimoto is targeting various fields toward making our world “Hyper-Smart” with a Cyber-Physical System that highly links the real world and cyberspace.

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.
The ACM China Doctoral Dissertation Award is presented to Yan Meng of Shanghai Jiao Tong University and Xupeng Miao of Peking University.

Yan Meng has studied the security of IoT networks, especially in the smart home. He proposes cross-layer side-channel attacks and countermeasures, designs liveness detection schemes, and builds misbehavior monitoring tools in the device, voice interface, and application platform layers, respectively. He published 20+ papers, including ACM CCS, USENIX Security, INFOCOM, TDSC, TMC, etc.

Xupeng Miao’s research focuses on building scalable, easy-to-use, and high-performance machine learning systems. He has published more than 20 high-quality publications in top-tier conferences and journals (e.g., SIGMOD, VLDB, OSDI, KDD, etc) and won a best paper award in VLDB 2022.

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

Yuanjie Li
Tsinghua University

Yu Zhang
Huazhong University of Science and Technology

The ACM China Rising Star Award is presented to Yuanjie Li, Tsinghua University, and Yu Zhang, Huazhong University of Science and Technology.

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.

CCF/ACM Award for Artificial Intelligence

Heng Tao Shen
University of Electronic Science and Technology of China

The 2022 CCF-ACM Award for Artificial Intelligence is presented to Heng Tao Shen, University of Electronic Science and Technology of China, for his distinguished contributions to multimedia content representation, analysis, and retrieval.

The CCF-ACM Artificial Intelligence Award, established last year 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.
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, 2023.
For ACM Distinguished Member, the deadline is August 1, 2023.
For ACM Senior Member, the deadline is September 3, 2023.

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.
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Pat Hanrahan
Monika Henzinger
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ACM Prize in Computing

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Jasmin Fisher
Sham Kakade
Ravi Kannan
Shwetak Patel
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Charles P. “Chuck” Thacker Award for Breakthroughs in Computing

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Butler Lampson
Dahlia Malkhi
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ACM – AAAI Allen Newell

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Beth Myatt
Fernando Pereira
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Paris Kanellakis Theory and Practice

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Moni Naor
Sergey Yekhanin

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

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Vipin Kumar
Johannes Schoening
Kentaro Toyama

Karl V. Karlstrom Outstanding Educator

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Distinguished Service

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PJ Narayanan
Radia Perlman
Len Shustek

Outstanding Contribution to ACM

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Francisco Castro
Arati Dixit
Srinivasan Seshan

Doctoral Dissertation
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Kamalika Chaudhuri
Nate Foster
Scott Hudson
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Tamara Kolda

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SIAM/ACM Prize in Computational Science and Engineering (Biennial)
c/o Joanna Littleton
SIAM
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David Keyes
Lois McInnes

ACM Members:
Geoffrey Fox
Bobby Schnabel

Gordon Bell Prize
Edmond Chow
Georgia Institute of Technology
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Members:
George Biros
Taisuke Boku
Barbara Chapman
Wolfgang Nagel
Amanda Randles
Kenjiro Taura
John Taylor

Regeneron International Science and Engineering Fair
Christina Gardner-McCune
University of Florida
gmccune@ufl.edu

Members:
Fred Martin
Jesmin Jahan Tithi
Tom Yeh
Past Recipients

A.M. Turing Award
1966 A.J. Perlis
1967 Maurice W. 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. Anthony 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

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

* 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

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
   Robert W. Taylor
   Charles P. Thacker
Past Recipients

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

Lee Gordon  
Jonathan Herlocker  
Neophytos Iacovou  
Joseph A. Konstan  
Shyong (Tony) Lam  
David Maltz  
Sean McNee  
Bradley Miller  
Paul Resnick  
John Riedl  
Mitesh Suchak  

2011 Eclipse  
Gregory Adams  
John Duimovich  
Erich Gamma  
Kevin Haaland  
Julian Jones  
Philippe Mulet  
Steve Northover  
Dave Thomson  
John Wiegand  

2012 LLVM  
Vikram Adve  
Evan Cheng  
Chris Lattner  

2013 Coq  
Bruno Barras  
Yves Bertot  
Pierre Castéran  
Thierry Coquand  
Jean-Christophe Filliâtre  
Hugo Herbelin  
Gerard P. Huet  
Chetan Murthy  
Christine Paulin-Mohring  

2014 MACH  
Rick Rashid  

Avadis (Avie) Tevanian  
2015 GCC (GNU Compiler Collection)  
Richard Stallman  

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)  

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  

2018 Wireshark  
Fernando Pérez  

2019 DNS  
Paul Mockapetris  

2020 Berkeley DB  
Keith Bostic  
Michael Olson  

Margo Seltzer  
2021 CompCert  
Sandrine Blazy  
Zaynah Dargaye  
Jacques-Henri Jourdan  
Xavier Leroy  
Michael Schmidt  
Bernhard Schommer  
Jean-Baptiste Tristan  

Programming Systems and Languages Paper Award*  
1971 Peter Lucas  
Kurt Walk  
1971 Peter J. Denning  
1971 Edsger W. Dijkstra  
1971 Jan Gecsei  
Richard L. Mattson  
Donald R. Slutz  
Irving Traiger  
1971 John C. Reynolds  
1972 no award given  
1973 C.A.R. Hoare  
1974 Zohar Manna  
Stephen Ness  
Jean Vuillemin  
1975 Daniel G. Bobrow  
Ben Wegbreit  
1975 Dennis Ritchie  
Kenneth Thompson  
1976 John Cocke  
Frances E. Allen  
1977 David Gries  
Susan Owicki  
1978 Niklaus Wirth  
1979 David L. Parnas  
1980 no award given  
1981 no award given  
1982 James Gray
Past Recipients

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 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 Hills
1990 Richard Stallman
1991 Feng-hsiung Hsu
1992 no award given
1993 Bjarno Stroustrup
1994 no award given
1995 no award given
1996 Shafiira Goldwasser

1997 no award given
1998 no award given
1999 Wen-mei Hwu
2000 Lydia Kavraki
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
2019 Maria Florina Balcan
2020 Shyamnath Gollakota
2021 Raluca Ada Popa
2003 David Haussler
2003 Judea Pearl
2004 Richard P. Gabriel
2005 Jack Minker
2006 Karen Spärck Jones
2007 Leonidas Guibas
2008 Joseph Y. Halpern
2008 Barbara J. Grosz
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 Kavraki
2019 Daphne Koller
2020 Hector Levesque
2020 Moshe Vardi
2021 Carla Gomes

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
Past Recipients

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

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 Jefffrey 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

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

Distinguished Service Award
1970 Franz L. Alt
1971 J. Don Madden
1972 George E. Forsythe (posthumously)
1973 William Atchison
1974 Saul Gorn
Past Recipients

1975 John W. Carr III
1976 Richard G. Canning
1977 Thomas B. Steel, Jr.
1978 Eric A. Weiss
1979 Carl Hammer
1980 Bernard Galler
1981 Aaron Finerman
1982 Anthony Ralston
1983 Grace Murray Hopper
1984 Saul Rosen
1985 Jean Sammet
1986 Clair Maple
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

Doctoral Dissertation Award
1982 Charles E. Leiserson
1983 Thomas W. Reps
1984 Manolis G.H. Katevenis
1985 John R. Ellis
1986 Johan Torkel Hastad
1986 Ketan D. Mulmuley
1987 John Canny
1988 Mauricio Karchmer
1989 Vijay Saraswat
1990 Hector Geffner
1990 David Heckerman
1991 Robert Schapire
1992 Kenneth McMillan
1992 Mendel Rosenblum
1993 Madhu Sudan
1994 David Karger
1994 T.V. Raman
1995 Sanjeev Arora
1995 Daniel A. Spielman
1996 Xiaoyuan Tu
1996 Carl Waldspurger
1997 Steven McCanne
1998 Hari Balakrishnan
1999 Dieter van Melkebeek
2000 Salil Vadhan
2001 Ion Stoica

2002 Venkatesan Guruswami
2003 AnHai Doan
2004 Boaz Barak
2005 Ben Liblit
2006 Yi-Ren Ng
2007 Sergey Yekhanin
2008 Constantinos Daskalakis
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

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
Past Recipients

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 Cappo
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
2020 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. Batcher
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
2018 Susan Eggers
2019 Mark Hill
2020 Luiz André Barroso
2021 Margaret Martonosi
2022 Mark Horowitz
2020 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
2020 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
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ACM Awards

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

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 Shafrira 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

* Formerly the ACM-W Athena Lecturer Award
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<td>Nancy M. Amato</td>
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<td>Martin Abadi</td>
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<td>Tarek Abdelzaher</td>
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<td>Jacob Abraham</td>
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<td>Samson Abramsky</td>
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<td>Andrea Arpaci-Dusseau</td>
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<td>James M. Adams</td>
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<td>Leonard M. Adleman</td>
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<td>Vikram Adve</td>
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<td>Anant Agarwal</td>
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<td>Alex Aiken</td>
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<td>Anastasia Ailamaki</td>
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<td>Rajeev Alur</td>
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<td>Shahid H. Bokhari</td>
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