

ACM

A·W·A·R·D·S



Association for
Computing Machinery

Advancing Computing as a Science & Profession

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 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.

Contents



ACM Awards

A.M. Turing Award.....	4
ACM Prize in Computing	5
ACM Charles P. “Chuck” Thacker Breakthrough in Computing Award.....	6
ACM – AAAI Allen Newell Award	7
ACM Software System Award	8
ACM Grace Murray Hopper Award.....	9
ACM Paris Kanellakis Theory and Practice Award.....	10
ACM Eugene L. Lawler Award for Humanitarian Contributions within Computer Science and Informatics	11
ACM Karl V. Karlstrom Outstanding Educator Award.....	12
ACM Distinguished Service Award	13
Outstanding Contribution to ACM Award	14
ACM Athena Lecturer Award.....	15
ACM Doctoral Dissertation Award	16
ACM Fellows.....	17

Additional ACM Awards

ACM Frances E. Allen Award for Outstanding Mentoring.....	18
ACM Policy Award	18
ACM – IEEE CS Eckert-Mauchly Award.....	19
ACM – IEEE CS Ken Kennedy Award	19
ACM – IEEE CS George Michael HPC Memorial Fellowships.....	20
SIAM – ACM Prize in Computational Science and Engineering.....	21
ACM/CSTA Cutler-Bell Prize in High School Computing	21
ACM Gordon Bell Prize	22
ACM Gordon Bell Special Prize for High-Performance-Based Covid-19 Research	22

Contents



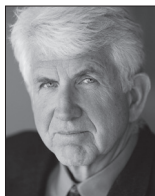
CRA Awards

CRA Skip Ellis Early Career Award	23
CRA-E Undergraduate Research Faculty Mentoring Award.....	24

Regional ACM Awards

ACM India Doctoral Dissertation Award	25
ACM India Early Career Researcher Award	26
ACM India Outstanding Contribution by a Woman.....	26
ACM India Outstanding Contribution to Computing Education Award	27
IPSI/ACM Award for Early Career Contributions to Global Research.....	27
ACM China Doctoral Dissertation Award.....	28
ACM China Rising Star Award	29
CCF/ACM Award for Artificial Intelligence.....	29
Awards Committee Co-Chairs.....	30
ACM Award Nomination Submission Procedures	30
ACM Special Interest Group Awards.....	30
2022 ACM Award Subcommittee Chairs and Members	31-32
Past Recipients	33-40
ACM Fellows – Complete Listing	41-51
In Memoriam, ACM Fellows	52

A.M. Turing Award



Bob Metcalfe

University of Texas at Austin
Massachusetts Institute of Technology

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.

ACM Prize in Computing



Yael Tauman Kalai

Microsoft Research
Massachusetts Institute of Technology

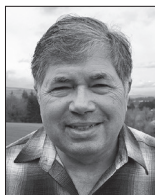
The ACM Prize in Computing is presented to Yael Tauman Kalai for breakthroughs in verifiable delegation of computation and fundamental contributions to cryptography.

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.

ACM Charles P. "Chuck" Thacker Breakthrough in Computing Award



David B. Papworth

Intel (retired)

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.

ACM – AAAI Allen Newell Award



Bernhard Schölkopf

Max Planck Institute for
Intelligent Systems
ETH Zurich



Stuart J. Russell

University of California
at Berkeley

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.

Software System Award



Gernot Heiser

University of New South Wales



Gerwin Klein

Proofcraft



Harvey Tuch

Google



Kevin Elphinstone

University of
New South Wales



June Andronick

Proofcraft



David Cock

ETH Zurich



Philip Derrin

Qualcomm



Dhammika Elkaduwe

University of Peradeniya



Kai Engelhardt



Toby Murray

University of Melbourne



Rafal Kolanski

Proofcraft



Michael Norrish

Australian National
University



Thomas Sewell

University of Cambridge



Simon Winwood

Galois

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.

Grace Murray Hopper Award



Mohammad Alizadeh

Massachusetts Institute of Technology

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



Giovanni Manzini
University of Pisa

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.

Karl V. Karlstrom Outstanding Educator Award



Michael E. Caspersen

It-vest, Aarhus University

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.

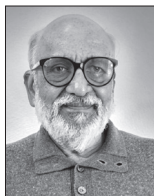
Caspersen has almost 70 papers on computer science education. He is co-author of a two-volume textbook on programming, and co-editor of *Reflections on the Teaching of Programming*, published by Springer-Verlag, 2008—a novel and innovative collection of contributions that address all aspects of teaching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

Distinguished Service Award



Ramesh Jain

University of California, Irvine

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.

Outstanding Contribution to ACM Award



Joseph A. Konstan

University of Minnesota

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.

ACM Athena Lecturer Award



Margo Seltzer

University of British Columbia

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.

ACM Doctoral Dissertation Award

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 Mei, 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 Pothén, 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

ETH Zurich



Masado Alexander Ishii

University of Utah



Shelby Lockhart

University of Illinois

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.

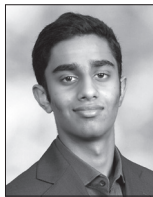
The SIAM/ACM Prize in Computational Science and Engineering is awarded every two years by SIAM and ACM in the area of computational science to one individual or a group of individuals in recognition of outstanding contributions to the development and use of mathematical and computational tools and methods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

ACM/CSTA Cutler-Bell Prize in High School Computing



Okezie Bell

Moravian Academy (PA) Liberal Arts and Science Academy (TX)



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), Mitsuhsa 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.

CRA Skip Ellis Early Career Award



Christina Harrington

Carnegie Mellon University

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.

CRA-E Undergraduate Research Faculty Mentoring Award



Yi-Chieh (Jessica) Wu
Harvey Mudd College



William Wang
UC Santa Barbara



Nanette Veilleux
Simmons University

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.

ACM China Doctoral Dissertation Award



Yan Meng

Shanghai Jiao Tong University



Xupeng Miao

Peking University

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.

2022 ACM Award Subcommittee Chairs and Members



A.M. Turing

Jeannette Wing

Columbia University
wing@columbia.edu

Members:

Rodney Brooks
Surajit Chaudhuri
Pat Hanrahan
Monika Henzinger
Michael Kearns
David Patterson
Margo Seltzer
Luca Trevisan
Manuela Veloso

ACM Prize in Computing

Jennifer Rexford

Princeton University
jrex@cs.princeton.edu

Members:

Peter Druschel
Jasmin Fisher
Sham Kakade
Ravi Kannan
Shwetak Patel
Zhengyou Zhang

Charles P. "Chuck" Thacker Award for Breakthroughs in Computing

Eric Brewer

Google
ebrewer@google.com

Members:

Jon Crowcroft
Mark Horowitz
Butler Lampson
Dahlia Malkhi
Andreas Nowatzky

ACM – AAAI Allen Newell

Lillian Lee

Cornell University

lillian.lee@cornell.edu

Members:

Maja Mataric
Beth Mynatt
Fernando Pereira
Toby Walsh

Software System

Lidong Zhou

Microsoft Research
lidongz@microsoft.com

Members:

Camille Fournier
Theo Schlossnagle
Chandu Thekkath

Grace Murray Hopper

Timothy Pinkston

University of Southern California
tpink@usc.edu

Members:

Anima Anandkumar
Lorrie Cranor
Carole Goble
Jelani Nelson

Paris Kanellakis Theory and Practice

Noga Alon

Princeton University
nalon@math.princeton.edu

Members:

Valerie King
Moni Naor
Sergey Yekhanin

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

Robin R. Murphy

Texas A&M University
robin.r.murphy@tamu.edu

Members:

Gregory Abowd
Vipin Kumar
Johannes Schoening
Kentaro Toyama

Karl V. Karlstrom Outstanding Educator

Judith Gal-Ezer

Open University of Israel
galezer@openu.ac.il

Members:

Tim Bell
Susan Rodger
Jan Vahrenhold

Distinguished Service

Anastasia Ailamaki

EPFL
anastasia.ailamaki@epfl.ch

Members:

Miguel Castro
PJ Narayanan
Radia Perlman
Len Shustek

Outstanding Contribution to ACM

Fabrizio Gagliardi

Barcelona Supercomputing Center
fgagliar@bsccns.onmicrosoft.com

Members:

Elizabeth Churchill
Chris Hankin
Mukund Madhavan
Jane Prey

ACM Athena Lecturer

Susan Dumais

Microsoft
sdumais@microsoft.com

Members:

Briana Bettin

2022 ACM Award Subcommittee Chairs and Members



Francisco Castro
Arati Dixit
Srinivasan Seshan

Doctoral Dissertation

Martin Schulz
 Technical University of
 Munich
martin.w.j.schulz@tum.de

Members:

Aditya Akella
Gustavo Alonso
Mohit Bansal
Kamalika Chaudhuri
Nate Foster
Scott Hudson
Dan Rubenstein
Ryan Williams
Mary Wootters

ACM Fellows

Rajesh Gupta
 University of California,
 San Diego
rgupta@ucsd.edu

Members:

Victor Bahl
Michael Franklin
Paola Inverardi
Anna Karlin
Nuria Oliver
Adrian Perrig
Frank Pfenning
Daniela Rus
Holly Rushmeier
Bart Selman

Distinguished Member

Geraldine Fitzpatrick
 Technical University of
 Vienna
geraldine.fitzpatrick@tuwien.ac.at

Members:

Stefano Basagni
David Basin

Cristian Cadar
Tanzeem Choudhury
Matt Dwyer
Shamim Hossain
Fatma Ozcan
Ingrid Russell
Rajeev Thakur

ACM – IEEE CS Eckert-Mauchly

Natalie Enright Jerger
 University of Toronto
enright@ece.utoronto.ca

ACM Members:

Kim Hazelwood
Steve Reinhardt

IEEE CS Members:

David Kaeli
Steve Keckler
Peh Li-Shiuan

ACM – IEEE CS Ken Kennedy

Jeff Hollingsworth
 University of Maryland
hollings@umd.edu

ACM Members:

Albert Cohen
Dongmei Zhang

IEEE CS Members:

David Padua
Daniel Reed
Vivek Sarkar

ACM – IEEE CS

George Michael HPC
Fellowships

Patricia Damkroger
 Intel
patricia.damkroger@intel.com

ACM Members:

Michael Gerndt
Christine Harvey
Tamara Kolda

Ignacio Laguna

IEEE Members:

Ewa Deelman
Susan Rodger

SIAM/ACM Prize in Computational Science and Engineering (Biennial)

c/o Joanna Littleton
 SIAM
littleton@siam.org

SIAM Members:

David Keyes
Lois McInnes

ACM Members:

Geoffrey Fox
Bobby Schnabel

Gordon Bell Prize

Edmond Chow
 Georgia Institute of
 Technology
echow@cc.gatech.edu

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 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

*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
- Warren Teitelman
- 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 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

Allen Newell Award

1994 Frederick P. Brooks, Jr.
 1995 Joshua Lederberg
 1996 no award given
 1997 Carver Mead
 1998 Saul Amarel
 1999 Nancy Leveson
 2000 Lotfi Zadeh
 2001 Ruzena Bajcsy
 2002 Peter Chen

2003 David Haussler
 2003 Judea Pearl
 2004 Richard P. Gabriel
 2005 Jack Minker
 2006 Karen Spärck Jones
 2007 Leonidas Guibas
 2008 Joseph Y. Halpern
 2008 Barbara J. Grosz
 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
 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 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

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

1999 Antonia Stone
 2001 John Blicht
 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
 (posthumously)
 1987 Frederick P. Brooks, Jr.
 1988 Charles L. Bradshaw
 1989 Peter J. Denning
 1990 Walter M. Carlson
 1991 Gerald L. Engel
 1992 Joyce Currie Little
 1993 J.A.N. Lee
 1994 no award given
 1995 Doris Lidtke
 1996 Hal Berghel
 1997 David H. Brandin
 1998 no award given
 1999 Anita Borg
 2000 Peter Wegner
 2001 Won Kim
 2002 Raymond E. Miller
 2003 Ruzena Bajcsy
 2004 E.G. Coffman
 2005 Mary Jane Irwin
 2006 Susan L. Graham
 2007 David A. Patterson
 2008 Telle Whitney
 2009 Edward Lazowska
 2010 Reinhard Wilhelm
 2011 William A. Wulf
 2012 Mateo Valero

2013 Gerhard Goos
 2013 Juris Hartmanis
 2013 Jan van Leeuwen
 2014 Dame Wendy Hall
 2015 Ron Perrott
 2016 Leonard J. Shustek
 2017 Janice Cuny
 2018 Victor Bahl
 2019 Michael Ley
 2020 Jennifer T. Chayes
 2021 Erik Altman

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)
Gotlieb
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

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

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

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

Past Recipients



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. Kavradi
 2018 Andrea Goldsmith
 2019 Elisa Bertino
 2020 Sarit Kraus
 2021 Ayanna Howard
 2022 Eva Tardos

** Formerly the ACM-W Athena Lecturer Award*

ACM Fellows



Scott J. Aaronson
 Daniel J. Abadi
 Martin Abadi
 Tarek Abdelzaher
 Serge Abiteboul
 Gregory D. Abowd
 Jacob Abraham
 Paul W. Abrahams
 Samson Abramsky
 David A. Abramson
 Mark S. Ackerman
 James M. Adams
 Leonard M. Adleman
 William Richards Adrion
 Sarita Adve
 Vikram Adve
 Foto Afrati
 Anant Agarwal
 Pankaj Agarwal
 Charu Chandra Aggarwal
 Gul Agha
 Dharma P. Agrawal
 Divyakant Agrawal
 Rakesh Agrawal
 Vishwani D. Agrawal
 Maneesh Agrawala *
 Alfred V. Aho
 Narendra Ahuja
 Alex Aiken
 Robert Aiken
 Anastasia Ailamaki
 Kurt B. Akeley
 Ian F. Akyildiz
 James Allan
 Frances Allen
 Eric Allender
 Noga Alon
 Gustavo Alonso
 Franz L. Alt
 Rajeev Alur
 Srinivas Aluru
 Lorenzo Alvisi

Saman Amarasinghe
 Nancy M. Amato
 Mostafa Ammar
 Anima Anandkumar *
 James H. Anderson
 Thomas Anderson
 Gregory R. Andrews
 Andrew W. Appel
 Lars Arge
 Sanjeev Arora
 Andrea Arpaci-Dusseau
 Remzi Arpaci-Dusseau
 Arvind
 Tetsuo Asano
 Krste Asanovic
 N. Asokan
 Mikhail Atallah
 David Atienza Alonso *
 Hagit Attiya
 Marc Auslander
 Richard H. Austing
 Ozalp Babaoglu
 David F. Bacon
 David A Bader
 Ronald M. Baecker
 Jean-Loup E. Baer
 Ricardo A. Baeza-Yates
 Victor Bahl
 Chandrajit L. Bajaj
 Ruzena R. Bajcsy
 Kavita Bala
 Hari Balakrishnan
 Meenakshi Balakrishnan
 Magdalena Balazinska
 Pierre Baldi
 Thomas Ball
 Prithviraj Banerjee
 Suman Banerjee
 Utpal Banerjee
 Boaz Barak*
 Paul Barford
 Paul Barham

Alan H. Barr
 Luiz Andre Barroso
 Peter L. Bartlett
 Victor Basili
 David Basin
 Kenneth E. Batcher
 Paul Beame
 Michel Beaudouin-Lafon *
 Catriel Beerli
 Elizabeth Belding
 C. Gordon Bell
 Mihir Bellare
 Luca Benini
 Bonnie Berger
 Emery David Berger
 Hal Berghel
 Francine Berman
 Philip A. Bernstein
 Elisa Bertino
 Vijay P. Bhatkar
 Laxmi N. Bhuyan
 Ricardo Bianchini
 Alan W. Biermann
 Lars Birkedal
 Ken Birman
 Joel S. Birnbaum
 Dines Bjorner
 Nikolaj Bjorner
 Stephen Blackburn
 Jose A Blakeley
 Michael W. Blasgen
 David M. Blei
 Guy Blelloch
 Avrim Blum
 Manuel Blum
 Gregor V. Bochmann
 Rastislav Bodik
 Barry Boehm
 Hans Boehm
 David R. Boggs
 Ronald F. Boisvert
 Shahid H. Bokhari

ACM Fellows



Peter Boncz *
 Dan Boneh
 Grady Booch
 Christine L. Borgman
 Lorraine Borman
 Katy Borner
 Alan H. Borning
 Allan Borodin
 Bella Bose
 Stephen Bourne
 Craig Boutilier
 Ronald J. Brachman
 Robert T. Braden
 Charles L. Bradshaw
 David H. Brandin
 Mark Braverman
 Richard P. Brent
 Eric A. Brewer
 Lionel Briand
 Daniel S. Bricklin
 Andrei Broder
 Carla Brodley
 David Brooks
 Frederick Brooks
 Rodney A. Brooks
 Douglas K. Brotz
 James C. Browne
 Amy S. Bruckman
 Randal E. Bryant
 Janis A. Bubenko
 Edouard Bugnion
 Alan Bundy
 Peter Buneman
 Douglas C. Burger
 Margaret Burnett
 Richard R. Burton
 William A.S. Buxton
 Christian Cachin
 Jin-Yi Cai
 Bradley G. Calder
 Diego Calvanese
 Jan Camenisch

Linda Jean Camp
 Tracy Camp
 Ran Canetti
 John Canny
 Srdjan Capkun
 Stuart K. Card
 Luca Cardelli
 Claire Cardie
 Michael J. Carey
 Loren C. Carpenter
 John Carroll
 Robert S. Cartwright
 Justine Cassell
 Edwin Catmull
 Rick Cattell
 Vinton Cerf
 Stefano Ceri
 Luis H. Ceze *
 Krishnendu Chakrabarty
 Donald Chamberlin
 Timothy Chan
 Ranveer Chandra *
 Anantha Chandrakasan
 B. Chandrasekaran
 Kaniyanthra Mani Chandy
 Edward Y. Chang
 Naehyuck Chang
 Shih Fu Chang
 Yao-Wen Chang
 Moses Charikar
 Surajit Chaudhuri
 Nitesh Chawla *
 Jennifer Chayes
 Bernard Chazelle
 Ramalingam Chellappa
 Ming-Syan Chen
 Peter Chen
 Peter P. Chen
 Hsinchun Chen
 Xilin Chen
 Yiran Chen
 Ed H. Chi *

Andrew A. Chien
 Imrich Chlamtac
 Alok Choudhary
 Tanzeem Choudhury
 Elizabeth Frances Churchill
 David D. Clark
 Lori Clarke
 Kenneth Clarkson
 Ed Coffman
 Edith Cohen
 Michael F. Cohen
 Philip R. Cohen
 Daniel Cohen-Or
 Richard J. Cole
 George E. Collins
 Dorin Comaniciu
 Douglas E. Comer
 Anne Condon
 Jason Cong
 Vincent Conitzer
 Robert Constable
 Larry Constantine
 Noshir Contractor
 Perry Cook
 Rob Cook
 Stephen A. Cook
 Keith D. Cooper
 Graham R. Cormode
 Corinna Cortes *
 Patrick Cousot
 Ingemar J. Cox
 Harvey G. Cragon
 Lorrie Faith Cranor
 Bruce Croft
 Mark Crovella
 Jon Crowcroft
 David Culler
 Bill Curtis *
 Ron Cytron
 Mary P. Czerwinski
 Michael D. Dahlin
 Nell B. Dale

ACM Fellows



William Dally
 Adnan Darwiche
 Gautam Das
 Constantinos Daskalakis *
 Thomas A. D'Auria
 Jack Davidson
 Susan B. Davidson
 Bruce Davie
 Gordon B. Davis
 Larry S. Davis
 Timothy Alden Davis
 Umeshwar Dayal
 Giuseppe De Giacomo
 Carlos J. P. De Lucena
 Bronis R. de Supinski *
 Jeffrey A. Dean
 Thomas L. Dean
 Kalyanmoy Deb *
 Joseph S. DeBlasi
 Rina Dechter
 Thomas DeFanti
 Andre M. Dehon
 Johan DeKleer
 Erik Demaine
 Giovanni DeMicheli
 Richard Demillo
 James Demmel
 Professor Xiaotie Deng
 Dorothy E. Denning
 Peter J. Denning
 Jack Dennis
 Narsingh Deo
 Mathieu Desbrun
 L. Peter Deutsch
 Srinivas Devadas
 Premkumar T. Devanbu
 David DeWitt
 Anind Dey
 Tamal K. Dey
 Inderjit Dhillon
 Thomas G. Dietterich
 Whitfield Diffie

David Dill
 Christophe Diot
 David P. Dobkin
 George Dodd
 Danny Dolev
 Bruce R. Donald
 Jack Dongarra
 Bonnie J. Dorr
 Paul Dourish
 Rodney Downey
 Susan Dray
 Larry Druffel
 Allison Druin
 Michel Dubois
 Nicholas Duffield
 Susan T. Dumais
 Karen Duncan
 Fredo Durand
 Nikil D. Dutt
 Sandhya Dwarkadas
 Cynthia Dwork
 Matthew B. Dwyer
 Carl Ebeling
 Alan Edelman
 Lieven Eeckhout
 Susan Eggers
 Thomas Eiter
 Amr El Abbadi
 Sebastian Elbaum *
 Faith Ellen
 Chip Elliott
 Carla S. Ellis
 Clarence A. Ellis
 Ahmed Elmagarmid
 Joel Emer
 Jose L. Encarnacao
 Erwin Engeler
 David Eppstein
 Thomas D. Erickson
 Michael D. Ernst
 Paulo J. Esteves-Verissimo
 Deborah Estrin

Ronald Fagin
 Kevin Fall
 Christos Faloutsos
 Babak Falsafi
 Wenfei Fan
 Yuguang "Michael" Fang *
 Martin Farach-Colton
 David J. Farber
 Richard J. Fateman
 Usama M. Fayyad
 Nick Feamster
 Edward A. Feigenbaum
 Joan Feigenbaum
 Steven Feiner
 Stuart Feldman
 Matthias Felleisen
 Edward Felten
 Jeanne Ferrante
 Domenico Ferrari
 Elena Ferrari
 Amos Fiat
 Tim Finin
 Adam Finkelstein
 Gerhard Fischer
 Kathleen S. Fisher
 Michael J. Fischer
 Cormac Flanagan
 Jason Flinn
 Sally J. Floyd
 Michael J. Flynn
 James D. Foley
 Kenneth Forbus
 Jodi Forlizzi
 David Forsyth
 Lance Fortnow
 Ian T. Foster
 Edward Alan Fox
 Dieter Fox
 Geoffrey Fox
 Dennis Frailey
 Hubertus Franke
 Michael J. Franklin

ACM Fellows



Robert M. Frankston
 Michael Franz
 Michael J. Freedman
 Herbert Freeman
 Peter A. Freeman
 William Freeman
 Juliana Freire
 Ophir Frieder
 Batya Friedman
 Frank Friedman
 Deborah Frincke
 Kevin Fu *
 Henry Fuchs
 Wesley Kent Fuchs
 Richard M. Fujimoto
 Thomas Funkhouser
 George Furnas
 Harold N. Gabow
 Richard Gabriel
 Evgeniy Gabilovich
 Judith Gal-Ezer
 Zvi Galil
 Deepak Ganesan
 Guang Gao
 Lixin Gao
 Wen Gao
 J.J. Garcia-Luna-Aceves
 Hector Garcia-Molina
 Michael R. Garey
 Simson L. Garfinkel
 David Garlan
 Minos Garofalakis
 Charles W. Gear
 Johannes Gehrke
 Erol Gelenbe
 Charles M. Geschke
 Lise Getoor
 Sanjay Ghemawat
 Carlo Ghezzi
 Phillip B. Gibbons
 Garth A. Gibson
 David K. Gifford

Yolanda Gil
 Juan E. Gilbert
 Lee Giles
 Maria L. Gini
 Robert L. Glass
 Michel X. Goemans
 Adele Goldberg
 Andrew V. Goldberg
 Shafi Goldwasser
 Carla Gomes
 Antonio Gonzalez
 John B. Goodenough
 James Goodman
 Michael T. Goodrich
 Andrew D. Gordon
 James Gosling
 Calvin C. Gotlieb
 Craig Gotsman *
 Allan Gottlieb
 Georg Gottlob
 Ramesh Govindan
 Venu Govindaraju
 Ambuj Goyal
 Susan L. Graham
 Robert M. Graham
 Ronald L. Graham
 Cordell Green
 Albert G. Greenberg
 Donald Greenberg
 Saul Greenberg
 Irene Greif
 Steven Gribble
 David Gries
 Eric Grimson
 Martin Grohe
 William D. Gropp
 Markus Gross
 Robert L. Grossman
 Barbara J. Grosz
 David Paul Grove
 Jonathan Grudin
 Orna Grumberg

Roch Guerin
 Rachid Guerraoui
 Ramanathan Guha
 Leonidas Guibas
 Baining Guo
 Aarti Gupta
 Anupam Gupta
 Gopal Krishna Gupta
 Manish Gupta
 Rajesh Gupta
 Rajiv Gupta
 Yuri Gurevich
 Venkatesan Guruswami
 Dan Gusfield
 John Guttag
 Mark Guzdial
 Adolfo Guzman
 Johan Hästad
 Laura M. Haas
 Peter Haas
 Zygmunt J. Haas
 Donald J. Haderle
 Gregory Hager
 Brent T. Hailpern
 Mohammad Hajiaghayi
 Alon Yitzchak Halevy
 Dame Wendy Hall
 Dan Halperin
 Joseph Halpern
 Susanne E. Hambrusch
 Jiawei Han
 Steven Michael Hand
 Pat Hanrahan
 Vicki Hanson
 Mor Harchol-Balter
 David Harel
 Jayant R. Haritsa
 Robert Harper
 Michael A. Harrison
 Peter Hart
 Juris Hartmanis
 Ahmed E. Hassan *

ACM Fellows



John P. Hayes
 Elad Hazan
 Tian He
 Anthony C. Hearn
 Marti Hearst
 Michael Heath
 David Heckerman
 Philip Heidelberger
 Wendi Beth Heinzelman
 Gernot Heiser
 Abdelsalam (Sumi) Helal *
 Joseph M. Hellerstein
 Martin Hellman
 James Hendler
 Laurie J. Hendren
 Jörg Henkel *
 John L. Hennessy
 Monika Henzinger
 Thomas A. Henzinger
 Maurice Herlihy
 Manuel V. Hermenegildo *
 John Hershberger
 Aaron Hertzmann
 Anthony Hey
 Michael Hicks *
 Nicholas Higham
 Mark D. Hill
 William Daniel Hillis
 Julia Hirschberg
 C. Antony R. Hoare
 Jessica K. Hodgins
 Torsten Hoefler *
 Urs Hoelzle
 Lance Hoffman
 Gerard Holzmann
 Jason Hong *
 Holger H. Hoos
 John E. Hopcroft
 Hugues Hoppe
 Mark A. Horowitz
 Eric Horvitz
 Charles H. House

Xiaobo Sharon Hu
 Xuedong Huang
 Jean-Pierre Hubaux
 Paul Hudak
 John Hughes
 Richard Hull
 Harry D. Huskey
 Daniel Huttenlocher
 Wen-Mei Hwu
 Toshihide Ibaraki
 Oscar Ibarra
 Ihab F. Ilyas
 Neil Immerman
 Piotr Indyk
 Paola Inverardi
 Yannis Ioannidis
 Sandy Irani *
 Mary Jane Irwin
 Charles Lee Isbell Jr.
 Hiroshi Ishii *
 Zachary Ives
 Sitharama Iyengar
 Ravishankar Iyer
 Daniel Jackson
 Robert J.K. Jacob
 Jeffrey Jaffe
 H. V. Jagadish
 Farnam Jahanian
 Anil K. Jain
 Raj Jain
 Ramesh C. Jain
 Joseph F. Jaja
 Sushil Jajodia
 Matthias Jarke
 Christian S. Jensen
 Niraj Jha
 Somesh Jha
 Ranjit Jhala
 Tao Jiang
 Thorsten Joachims
 Lizy Kurian John
 Anita K. Jones

Cliff B. Jones
 Neil Jones
 Michael I. Jordan
 Aravind K. Joshi
 Norman Jouppi
 Frans Kaashoek
 David R Kaeli
 William Kahan
 Robert E. Kahn
 Andrew Kahng
 Laxmikant Kale
 Erich L. Kaltofen
 Subbarao Kambhampati
 Takeo Kanade
 Abraham Kandel
 Sung Mo Kang
 Ravi Kannan
 Sampath Kumar Kannan
 Ronald M. Kaplan
 David Karger
 Sidney Karin
 Anna Karlin
 Howard J. Karloff
 Richard Karp
 David J. Kasik
 Michael Kass
 Dina Katabi
 Joost-Pieter Katoen
 Jonathan Katz
 Randy H. Katz
 Arie E. Kaufman
 Henry A. Kautz
 Lydia Kavraki
 Alan Kay
 Michael Kearns
 Stephen Keckler
 Zvi Kedem
 Kimberly Keeton
 Wendy A. Kellogg
 Richard A. Kemmerer
 Alfons Kemper *
 Kenneth W. Kennedy

ACM Fellows



Stephen T. Kent
 Anne-Marie Kerमारrec
 Angelos Dennis Keromytis
 Martin Kersten
 Srinivasan Keshav
 Carl Kesselman
 Peter B. Key
 Sanjeev Khanna
 Samir Khuller *
 Gregor Kiczales
 Richard B. Kiebertz
 Sara Kiesler
 Nam Sung Kim
 Won Kim
 Valerie King
 Scott Kirkpatrick
 Masaru Kitsuregawa
 Maria Klawe
 Philip N. Klein
 Jon Kleinberg
 Robert Kleinberg
 Leonard Kleinrock
 John C. Klensin
 Edward Knightly
 Craig Knoblock
 Donald E. Knuth
 Sven Koenig
 Phokion Kolaitis
 Tamara G. Kolda
 Joseph Konstan
 Henry F. Korth
 Sambasiva Kosaraju
 Donald Kossmann
 David Kotz
 Farinaz Koushanfar *
 Robert A. Kowalski
 Dexter Kozen
 Christoforos Kozyrakis
 Jeffrey Kramer
 Sarit Kraus
 Robert Kraut
 Hans-Peter Kriegel

Arvind Krishnamurthy
 David J. Kuck
 Panganamala Kumar
 Ravi Kumar
 Vipin Kumar
 C.-C. Jay Kuo *
 Tei-Wei Kuo
 James Kurose
 Thomas E. Kurtz
 Ray Kurzweil
 Marta Kwiatkowska
 Richard E. Ladner
 John E. Laird
 T. V. Lakshman
 S. Lakshmivarahan
 Monica Lam
 Simon S. Lam
 Leslie Lamport
 Butler W. Lampson
 Axel Van Lamsweerde
 Susan Landau
 James Landay
 Lawrence Landweber
 Per-Ake Larson
 James Larus
 John Launchbury
 Edward Lazowska
 Douglas Lea
 Der-Tsai Lee
 Insup Lee
 John A.N. Lee
 Lillian Lee
 Peter Lee
 Ruby B. Lee
 Wenke Lee
 Tom Leighton
 K. Rustan M. Leino
 Charles E. Leiserson
 Thomas Lengauer
 Maurizio Lenzerini
 Xavier Leroy
 Michael E. Lesk

Nancy Leveson
 Roy Levin
 Brian Levine
 Marc Levoy
 Henry M. Levy
 Philip M. Lewis
 Kevin Leyton-Brown
 Fei-Fei Li
 Feifei Li
 Hai Li
 Hang Li *
 Kai Li
 Li Erran Li
 Ming Li
 Ninghui Li
 Xiangyang Li
 Xuelong Li
 Leonid Libkin
 Chih-Jen Lin
 Jimmy Lin *
 Ming C. Lin
 Yi-Bing Lin
 Bruce Lindsay
 Richard Lipton
 Barbara Liskov
 Joyce Currie Little
 Michael Littman
 Witold Litwin
 Bing Liu
 C.L. Liu
 Huan Liu
 Tie-Yan Liu
 Yunhao Liu
 Gabriel H. Loh
 David B. Lomet
 Donald W. Loveland
 Steven H. Low
 Paul G. Lowney
 Tomas Lozano-Perez
 Chenyang Lu
 Songwu Lu
 Michael George Luby

ACM Fellows



John Chi-Shing Lui

Jiebo Luo

Joseph Bryan Lyles

Clifford A. Lynch

Nancy Lynch

M. Stuart Lynn

Richard F. Lyon

Yi Ma

Yoelle Maarek

Wendy Elizabeth Mackay

David MacQueen

Samuel Madden

Bruce M. Maggs

Peter Magnusson

Scott Mahlke

David Maier

Herbert Maisel

Jitendra Malik

Sharad Malik

Dahlia Malkhi

David Maltz

Bangalore S. Manjunath

Zohar Manna

Christopher Manning

Dinesh Manocha

Yishay Mansour

Madhav Marathe

Diana Marculescu

Radu Marculescu *

Volker Markl

Steve Marschner

C. Dianne Martin

Margaret Martonosi

Keith Marzullo

Larry M. Masinter

Matthew T Mason

Maja Mataric

Yossi Matias

Satoshi Matsuoka

Ueli M. Maurer

Nelson Max

Andrew K. McCallum

Edward McCluskey

Patrick McDaniel

Sheila McIlraith

Paul R. McJones

Kathleen McKeown

Nick McKeown

Kathryn S. McKinley

Kurt Mehlhorn

Hong Mei *

John Mellor-Crummey

Daniel Menasce

Filippo Menczer

Jose Meseguer

Albert R. Meyer

Bertrand Meyer

Silvio Micali

Rada Mihalcea

Barton P. Miller

Dale A. Miller

Gary L. Miller

Renee J. Miller

Victor Miller

David L. Mills

Tova Milo

Jack Minker

Bud Mishra

Jayadev Misra

Vishal Misra

John C. Mitchell

Joseph Mitchell

Subhasish Mitra

Michael Mitzenmacher

Paul Mockapetris

Jeffrey C. Mogul

C. Mohan

Raymond Mooney

J. Strother Moore

Thomas Moran

James H. Morris

Meredith Ringel Morris

Robert Morris

Greg Morrisett

Joel Moses

Andreas Moshovos

Eliot Moss

Elchanan Mossel

Rajeev Motwani

David M. Mount *

Todd C. Mowry

Trevor Mudge

Frank Mueller

Shubu Mukherjee

Ian Munro

Richard R. Muntz

Gail C. Murphy

Robin R. Murphy

S. Muthukrishnan

Onur Mutlu

Andrew Myers

Brad A. Myers

Eugene Myers

Elizabeth D. Mynatt

Nachiappan Nagappan

Radhika Nagpal

Klara Nahrstedt

Marc Najork

Richard E. Nance

Moni Naor

Vijaykrishnan Narayanan

Chandra Narayanaswami

Dana Nau

Jeffrey F. Naughton

Gonzalo Navarro *

Shamkant Navathe

Bernhard Nebel

Peter G. Neumann

Monroe Newborn

Alan Newell

David M. Nicol

Jason Nieh

J. Nievergelt

Takao Nishizeki

Sam H. Noh

Donald A. Norman

ACM Fellows



Peter Norvig
 Susan H. Nycum
 Martin Odersky
 Anthony Oettinger
 Dianne Prost O'Leary
 Nuria Oliver
 Dan R. Olsen
 Gary M. Olson
 Judith S. Olson
 Oyekunle Olukotun
 Beng Chin Ooi
 Joseph O'Rourke
 Leon J. Osterweil
 Rafail Ostrovsky
 Joel Ouaknine
 John Ousterhout
 Sharon Oviatt
 Susan S. Owicki
 Zehra Ozsoyoglu
 M. Tamer Ozsu
 Janos Pach
 Venkata Padmanabhan
 David Padua
 Krishna Palem
 David Z. Pan
 Prakash Panangaden
 Cherri M. Pancake
 Sethuraman
 Panchanathan
 Christos Papadimitriou
 Manish Parashar
 Keshab K. Parhi
 Haesun Park
 Donn B. Parker
 David Parkes
 David Lorge Parnas
 Craig Partridge
 Gurudatta Parulkar
 Rafael Pass *
 Janak H. Patel
 Jignesh M. Patel
 Shwetak N. Patel

Yale Patt
 David Patterson
 Lawrence C. Paulson
 Vern Paxson
 Judea Pearl
 Jian Pei
 David Peleg
 Fernando Pereira
 Radia Perlman
 Adrian Perrig
 Ron Perrott
 Larry L. Peterson
 Linda Petzold
 Pavel Pevzner
 Simon L. Peyton-Jones
 Frank Pfennig
 Hanspeter Pfister
 Rosalind Wright Picard
 Benjamin Pierce
 Keshav K. Pingali
 Timothy Pinkston
 Nicholas Pippenger
 Hamid Pirahesh
 Toniann Pitassi
 Andrew M. Pitts
 Gordon Plotkin
 Ira Pohl
 Martha Pollack
 Marc Pollefeys *
 Mihai Pop
 Alex Pothén *
 William B. Poucher
 Balaji Prabhakar
 Dhiraj Pradhan
 Viktor Prasanna
 Vaughan Ronald Pratt
 Bryan Preas
 Franco P. Preparata
 John Mark Pullen
 Shaz Qadeer
 Lili Qiu
 Moinuddin Qureshi *

Michael O. Rabin
 Tal Rabin
 Roy F. Rada
 Dragomir R. Radev
 Prabhakar Raghavan
 Sriram Rajamani
 Anthony Ralston
 K. K. Ramakrishnan
 Raghu Ramakrishnan
 Ganesan Ramalingam
 Ravi Ramamoorthi
 Krithivasan Ramamritham
 Brian Randell
 Venkat Rangan
 Parthasarathy Ranganathan
 Satish Rao
 T.R.N. Rao
 Louiqa Raschid
 Rajeev Ramnarain Rastogi
 Raj Reddy
 Daniel A. Reed
 John H. Reif
 Edward M. Reingold
 Omer Reingold
 Michael Reiter
 Kui Ren
 Thomas Reps
 Aristides Requicha
 Paul Resnick
 Andreas Reuter
 Jennifer Rexford
 Glenn Ricart
 John Rice
 John T. Richards
 Martin Rinard
 Ronald L. Rivest
 Eric S. Roberts
 George Robertson
 S. E. Robertson
 Tom Rodden
 Pablo Rodriguez
 Yvonne Rogers

ACM Fellows



Dieter Rombach
 Timothy Roscoe
 Jonathan Rose
 Arnold Rosenberg
 David S. Rosenblum
 Mendel Rosenblum
 Daniel J. Rosenkrantz
 Jeffrey S. Rosenschein
 Tajana Rosing
 Keith Ross
 Robert B. Ross
 Mary Beth Rosson
 Dan Roth
 Matthew Roughan
 Nick Roussopoulos
 Lawrence A. Rowe
 Ronitt Rubinfeld
 Yong Rui
 Jeff Rulifson
 Michael Rung-Tsong Lyu
 Daniela Rus
 Holly E. Rushmeier
 Szymon Rusinkiewicz
 Stuart Russell
 Rob A. Rutenbar
 Barbara Gershon Ryder
 Ashutosh Sabharwal *
 Krishan K. Sabnani
 Mooly Sagiv
 Amit Sahai
 Sartaj K. Sahni
 Karem Sakallah
 Michael Saks
 David H. Salesin
 Steven Salzberg
 Pierangela Samarati
 Ahmed Sameh
 Hanan Samet
 Pamela Samuelson
 William Sanders
 Tuomas Sandholm
 Ravinderpal S. Sandhu

Alberto Luigi Sangiovanni-
 Vincentelli
 John Sanguinetti
 Sachin S. Sapatnekar
 Sunita Sarawagi
 Vivek Sarkar
 Mahadev Satyanarayanan
 John E. Savage
 Stefan Savage
 Richard Schantz
 Hans-Joerg Schek
 Bernt Schiele
 Richard D. Schlichting
 Robert B. Schnabel
 Paul Schneck
 Fred B. Schneider
 Bernhard Schoelkopf
 Robert Schreiber
 Michael D. Schroeder
 Peter Schroeder
 Henning Schulzrinne
 Assaf Schuster
 Dana S. Scott
 Michael Scott
 Steven Scott
 Robert Sedgewick
 Steve Seitz
 Patricia G. Selinger
 Abigail Sellen
 Timoleon Sellis
 Alan Selman
 Bart Selman
 Margo Seltzer
 Sudipta Sengupta
 Carlo H. Sequin
 Srinivasan Seshan
 Sanjit Arunkumar Seshia
 Ravi Sethi
 Andre Seznez
 Lui Sha
 Mubarak Ali Shah
 Adi Shamir

Ron Shamir
 Micha Sharir
 Dennis E. Shasha
 Nir Shavit
 Alan C. Shaw
 Mary M. Shaw
 Alla Sheffer
 Heng Tao Shen
 Scott J. Shenker
 Prashant J. Shenoy
 Timothy Sherwood *
 Amit Sheth
 Stuart Shieber
 Kyuseok Shim
 Kang Shin
 David Shmoys
 Ben Shneiderman
 Yoav Shoham
 Peter W. Shor
 Heung-Yeung Shum
 Rudrapatna Kallikote
 Shyamasundar
 Howard Siegel
 Daniel Siewiorek
 Joseph Sifakis
 Abraham Silberschatz
 Barbara B. Simons
 Alistair Sinclair
 Mona Singh
 Munindar P. Singh
 Amit Singhal
 Michael Sipser
 Aravinda P Sistla
 Ramesh Kumar Sitaraman
 Anand Sivasubramaniam
 Kevin Skadron
 Martha Sloan
 Donald R. Slutz
 Adam Smith
 Alan Smith
 Burton Smith
 Scott Smolka

ACM Fellows



Padhraic Smyth

Marc Snir

Richard Snodgrass

Alex C. Snoeren

Larry Snyder

Stefano Soatto *

Mary Lou Soffa

Gurindar S. Sohi

Dawn Song

Olga Sorkine-Hornung

Diane L. Souvaine

Eugene H. Spafford

Alfred Z. Spector

Daniel A. Spielman

Mark S. Squillante

Ramakrishnan Srikant

Aravind Srinivasan

Divesh Srivastava

Mani B. Srivastava

John A. Stankovic

John T. Stasko *

Richard E. Stearns

Thomas B. Steel, Jr.

Guy L. Steele, Jr.

Kenneth Steiglitz

Clifford Stein

Ralf Steinmetz

Per O. Stenstrom

Rick Stevens

Ion Stoica

alvatore J. Stolfo

Harold Stone

Peter Stone

Michael Stonebraker

William Strecker

Bjarne Stroustrup

Zhendong Su *

Dan Suciu

Madhu Sudan

S. Sudarshan

Gary J. Sullivan *

Patrick Suppes

Subhash Suri

Gerald Sussman

Ivan Sutherland

Norihisa Suzuki

Paul Syverson

Richard Szeliski

Edward A. Taft

Roberto Tamassia

Milind Tambe

Chung Jen Tan

Wang-Chiew Tan

Andrew S. Tanenbaum

Jie Tang

Val Tannen

Dacheng Tao

Yufei Tao

Eva Tardos

Robert E. Tarjan

Leandros Tassioulas

Richard N. Taylor

Valerie Taylor

Jaime Teevan *

Mark Tehranipoor

Shang-Hua Teng

Moshe Tennenholtz

Douglas B. Terry

Demetri Terzopoulos

Gerald Tesauro

Chandramohan A. Thekkath

Donald E. Thomas

Kenneth Lane Thompson

Mikkel Thorup

Bhavani Thuraisingham

Walter F. Tichy

Carlo Tomasi

Andrew Tomkins

Frank Wm. Tompa

Koji Torii

Josep Torrellas

Donald F. Towsley

Kentarō Toyama *

Irv Traiger

Joseph Traub

Luca Trevisan

Stephen Trimberger

Olga Troyanskaya

Gene Tsudik

Allen Tucker

Dean Tullsen

Matthew A. Turk

Albert J. Turner

Jonathan Turner

Jeffrey D. Ullman

David M. Ungar

Eli Upfal

Salil Vadhan

Amin Vahdat

Patrick Valduriez

Mateo Valero

Leslie G. Valiant

Andries van Dam

Wil Van Der Aalst

Paul Van Oorschot

Robbert Van Renesse

C.J. Van Rijsbergen

Moshe Y. Vardi

Alexander Vardy

George Varghese

Umesh Vazirani

Vijay V. Vazirani

Manuela Veloso

Santosh Vempala

Baba C. Vemuri

Mary K. Vernon

Martin Vetterli

Victor Vianu

Rene Vidal *

Giovanni Vigna

Uzi Vishkin

Nisheeth Vishnoi

Jeffrey S. Vitter

Geoffrey Voelker

Ellen M. Voorhees

Philip Wadler

ACM Fellows



Benjamin W. Wah
 Toby Walsh
 Mitchell Wand
 Wei Wang
 Wenping Wang
 Roy Want
 John Warnock
 Tandy Warnow
 David S. Warren
 Anthony I. Wasserman
 Brent Waters
 Stuart Wecker
 Ben Wegbreit
 Mark Wegman
 Gerhard Weikum
 Fred W. Weingarten
 Uri C. Weiser
 Daniel Weld
 Michael Wellman
 Emmerich Welzl
 David Wetherall
 Elaine Weyuker
 Kyu-Young Whang
 John R. White
 Ryen W. White
 Darrell Whitley
 Steve Whittaker
 J. Turner Whitted
 Peter Widmayer
 Jennifer Widom
 Gio Wiederhold
 Avi Wigderson
 Reinhard Wilhelm
 John Wilkes
 Yorick Wilks
 Robin Williams
 Laurie Ann Williams
 David Williamson
 Walter Willinger
 Jeannette M. Wing
 Shmuel Winograd
 Terry Winograd

Marianne Winslett
 Niklaus E. Wirth
 David S. Wise
 Ian Witten
 Jacob Otto Wobbrock
 Alexander L. Wolf
 Marilyn Claire Wolf
 Seymour J. Wolfson
 Ouri Wolfson
 Alec Wolman
 Chak-Kuen Wong
 Limsoon Wong
 Martin Wong
 David A. Wood
 Michael Wooldridge
 Cathy Wu
 William A. Wulf
 Tao Xie
 Yuan Xie
 Eric Xing *
 Shuicheng Yan
 Ming-Hsuan Yang
 Qiang Yang
 Mihalis Yannakakis
 Andrew C. Yao
 Katherine Yelick
 Wang Yi
 Akinori Yonezawa
 Bryant W. York
 Paul Young
 Moustafa Amin Youssef
 Marshall C. Yovits
 Dong Yu *
 Philip S. Yu
 Yizhou Yu *
 Moti Yung
 Ramin Zabih
 Frank Kenneth Zadeck
 Mohammed Zaki
 Paolo Zanella
 Carlo A. Zaniolo
 Pamela Zave

Stanley Zdonik
 Ellen Zegura
 Andreas Zeller
 Chengxiang Zhai
 Shumin Zhai
 Aidong Zhang
 HongJiang Zhang
 Hui Zhang
 Lixia Zhang
 Xiaodong Zhang
 Zhengyou Zhang
 Ben Y. Zhao
 Haitao (Heather) Zheng *
 Lin Zhong
 Kun Zhou
 Lidong Zhou
 Yuanyuan Zhou
 Zhi-Hua Zhou
 Wenwu Zhu *
 Shlomo Zilberstein
 Thomas Zimmermann
 Denis Zorin *
 David Zuckerman
 Willy E. Zwaenepoel
 Stuart Zweben
 Michael J. Zyda

* 2022 Inductees

*In Memoriam**ACM Fellows*

James M. Adams	Harry D. Huskey
Frances Allen	David S. Johnson
Franz L. Alt	Kenneth W. Kennedy
R. L. Ashenurst	Martin Kersten
Charles W. Bachman	Stephen S. Lavenberg
Roger R. Bate	H. W. Lawson
Lawrence Bernstein	Joshua Lederberg
Daniel Bobrow	Meir Lehman
Barry Boehm	Raymond A. Lorie
Gaetano Borriello	John McCarthy
Yuri Breitbart	Edward McCluskey
Richard G. Canning	Daniel D. McCracken
Walter Carlson	Raymond Miller
Rick Cattell	A. J. Milner
Edmund Clarke	Jack Minker
Edgar F. Codd	Rajeev Motwani
Fernando Corbato	Roger M. Needham
J.D. Couger	Takao Nishizeki
Edsger W. Dijkstra	David S. Notkin
J. Presper Eckert	Randy Pausch
Peter Elias	Amir Pnueli
Gerald L. Engel	Bob Rau (B. Ramakrishna Rau)
John H. Esbin	Raymond Reiter
Bob O. Evans	John C. Reynolds
Tse-Yun Feng	John T. Riedl
Bernard A. Galler	Azriel Rosenfeld
John D. Gannon	Jean E. Sammet
Mario Gerla	Kenneth C. Sevcik
Myron Ginsberg	Herbert A. Simon
Calvin C. (Kelly) Gotlieb	Larry Stockmeyer
James N. (Jim) Gray	Patrick Suppes
Herbert R. J. Grosch	Robert W. Taylor
Carl Hammer	Charles P. Thacker
Richard W. Hamming	Joseph Traub
Fred H. Harris	Stamatis Vassiliadis
Mary Harrold	Chris S. Wallace
Juris Hartmanis	David L. Waltz
Laurie J. Hendren	Willis H. Ware
Bertram Herzog	Peter Wegner
Harold J. Highland	Eric A. Weiss
James Jay Horning	David John Wheeler
Tom Hull	Robert Wilensky
J.N. Hume	Maurice V. Wilkes
Watts S. Humphrey	L. A. Zadeh



Association for Computing Machinery

www.acm.org