

**IEEE JOHN VON NEUMANN MEDAL
RECIPIENTS**

2022	DEBORAH ESTRIN (FIEEE)— Professor, Computer Science, Cornell University, Cornell New York, USA	“For leadership in mobile and wireless sensing systems technologies and applications, including personal health management.”
2021	JEFFREY ADGATE DEAN (nonmember)—Google Senior Fellow, Mountain View, California, USA	“For contributions to the science and engineering of large-scale distributed computer systems and artificial intelligence systems.”
2020	MICHAEL I. JORDAN Professor, University of California, Berkeley, California, USA	“For contributions to machine learning and data science.”
2019	EVA TARDOS Jacob Gould Schurman Professor of Computer Science, Cornell University, Ithaca, New York, USA	“For contributions to the field of algorithms, including foundational new methods in optimization, approximation algorithms, and algorithmic game theory.”
2018	PATRICK COUSOT Professor, New York University, New York, New York, USA	“For introducing abstract interpretation, a powerful framework for automatically calculating program properties with broad application to verification and optimization.”
2017	VLADIMIR VAPNIK Professor, Columbia University and Facebook AI Research, New York, New York, USA	“For the development of statistical learning theory, the theoretical foundations for machine learning, and support vector machines.”
2016	CHRISTOS HARILAOS PAPADIMITRIOU Professor, University of California, Berkeley, Berkeley, California, USA	“For providing a deeper understanding of computational complexity and its implications for approximation algorithms, artificial intelligence, economics, database theory, and biology.”
2015	JAMES A. GOSLING Chief Software Architect, Liquid Robotics, Redwood, California, USA	“For the Java programming language, Java Virtual Machine, and other contributions to programming languages and environments.”
2014	CLEVE MOLER Chief Mathematician, MathWorks, Santa Fe, New Mexico, USA	“For fundamental and widely used contributions to numerical linear algebra and scientific and engineering software that transformed computational science.”

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| 2013 | JACK B. DENNIS
Professor Emeritus, Massachusetts
Institute of Technology Computer
Science and Artificial Intelligence
Laboratory, MIT, Cambridge, MA,
USA | "For fundamental abstractions to implement protection in operating systems and for the dataflow programming paradigm." |
| 2012 | EDWARD McCLUSKEY
Professor Emeritus, Departments of
Electrical Engineering and
Computer Science, Stanford
University, Stanford, CA, USA | "For fundamental contributions that shaped the design and testing of digital systems." |
| 2011 | C.A.R. (TONY) HOARE
Principal Researcher, Microsoft
Research Ltd.; Cambridge, UK | "For seminal contributions to the scientific foundation of software design." |
| 2010 | JOHN HOPCROFT
IBM Professor of Engineering and
Applied Mathematics, Cornell
University, Cornell, NY, USA | "For laying the foundations for the fields of automata and language theory and many seminal contributions to theoretical computer science." |
| AND | JEFFREY ULLMAN
Professor Emeritus of Computer
Science, Stanford University
Stanford, CA, USA | |
| 2009 | SUSAN L. GRAHAM
Pehong Chen Distinguished
Professor of Computer Science,
Univ of California at Berkeley,
Berkeley, CA, USA | "For contributions to programming language design and implementation and for exemplary service to the discipline of computer science." |
| 2008 | LESLIE LAMPORT
Researcher, Microsoft Corporation,
Silicon Valley Research Center,
Mountain, View, CA, USA | "For establishment of the foundations of distributed and concurrent computing." |
| 2007 | CHARLES THACKER
Distinguished Engineer, Microsoft
Corporation, Redmond, WA, USA | "For a central role in the creation of the personal computer and the development of networked computer systems." |
| 2006 | EDWIN CATMULL
President, Pixar Animation Studios,
Emeryville, CA, USA | "For fundamental contributions to computer graphics, and a pioneering role in the use of computer animation in motion pictures." |
| 2005 | MICHAEL STONEBRAKER
Adjunct Professor, Laboratory for
CS, Massachusetts Institute of
Technology, Bedford, NH, USA | "For contributions to the design, implementation, and commercialization of relational and object-relational database systems." |

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| 2004 | BARBARA H. LISKOV
Ford Professor of Engineering and
Associate Head for Computer
Science, Massachusetts Institute of
Technology
Cambridge, MA, USA | "For fundamental contributions to
programming languages, programming
methodology, and distributed systems." |
| 2003 | ALFRED V. AHO
Professor, Columbia University,
New York, NY, USA | "For contributions to the foundations of
computer science and to the fields of
algorithms and software tools." |
| 2002 | OLE-JOHAN DAHL
Univ of Oslo, Oslo, Norway | "For the introduction of the concepts
underlying object-oriented programming
through the design and implementation of
SIMULA 67." |
| AND | KRISTEN NYGAARD
Univ of Oslo, Oslo, Norway | |
| 2001 | BUTLER W. LAMPSON
Distinguished Engineer at Microsoft
and Adjunct Professor at MIT | "For technical leadership in the creation of
timesharing, distributed computing,
networking security and program
languages." |
| 2000 | JOHN L. HENNESSY
Stanford University
Stanford, CA, USA | "For creating a revolution in computer
architecture through their exploration,
popularization, and commercialization of
architectural innovations." |
| AND | DAVID A. PATTERSON
University of California at Berkeley
Berkeley, CA, USA | |
| 1999 | DOUGLAS C. ENGELBART
Bootstrap Institute
Fremont, CA, USA | "For creating the foundations of real time,
interactive, personal computing including
CRT displays, windows, the mouse,
hypermedia linking and conferencing, and
on-line journals." |
| 1998 | IVAN EDWARD SUTHERLAND
Sun Microsystems Laboratories
Palo Alto, CA, USA | "For pioneering contributions to computer
graphics and microelectronic design, and
leadership in the support of computer
science and engineering research" |
| 1997 | MAURICE V. WILKES
Olivetti Research Ltd.
Cambridge, England | "For a lifelong career of seminal
contributions to computing, including the
first full-scale operational stored program
computer and to the foundations of
programming." |
| 1996 | CARVER A. MEAD
California Institute of Technology | "For leadership and innovative contributions
to VLSI and creative microelectronic |

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	Pasadena, CA, USA	structures."
1995	DONALD E. KNUTH Stanford University Stanford, CA, USA	"For fundamental contributions to the theory and practice of computer science and to the art of computer programming."
1994	JOHN COCKE IBM/T.J. Watson Research Center Yorktown Heights, NY, USA	"For contributions to the computer industry including the invention, development and implementation of Reduced Instruction Set Computer (RISC) architecture and program optimization technology."
1993	FREDERICK P. BROOKS, JR. Univ. of North Carolina Chapel Hill, NC, USA	"For significant developments in computer architecture, insightful observations on software engineering, and for computer science education and professional service."
1992	C. GORDON BELL Stardent Computer Sunnyvale, CA, USA	"For innovative contributions to computer architecture and design."