

IEEE JOHN VON NEUMANN MEDAL
RECIPIENTS

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| 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." |
| 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." |

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| 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 LAMPART
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." |
| 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." |

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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 Pasadena, CA, USA	"For leadership and innovative contributions to VLSI and creative microelectronic 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	"For contributions to the computer industry including the invention, development and

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Yorktown Heights, NY, USA

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."