IEEE JOHN VON NEUMANN MEDAL
RECIPIENTS

2024   CHRISTOPHER MANNING (non-member)—Thomas M. Siebel Professor in Machine Learning in the Departments of Linguistics and Computer Science, Stanford University, Stanford, California, USA

"For advances in computational representation and analysis of natural language."

2023   FRANK THOMSON (TOM) LEIGHTON (MIEEE)—Chief Executive Officer, Akamai Technologies, Cambridge, Massachusetts, USA

"For fundamental contributions to algorithm design and their application to content delivery networks."

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."
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."

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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."
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."

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1998   IVAN EDWARD SUTHERLAND   "For pioneering contributions to computer graphics and microelectronic design, and leadership in the support of computer science and engineering research"
Sun Microsystems Laboratories
Palo Alto, CA, USA

1997   MAURICE V. WILKES   "For a lifelong career of seminal contributions to computing, including the first full-scale operational stored program computer and to the foundations of programming."
Olivetti Research Ltd.
Cambridge, England

1996   CARVER A. MEAD   "For leadership and innovative contributions to VLSI and creative microelectronic structures."
California Institute of Technology
Pasadena, CA, USA

1995   DONALD E. KNUTH   "For fundamental contributions to the theory and practice of computer science and to the art of computer programming."
Stanford University
Stanford, CA, USA

1994   JOHN COCKE   "For contributions to the computer industry including the invention, development and implementation of Reduced Instruction Set Computer (RISC) architecture and program optimization technology."
IBM/T.J. Watson Research Center
Yorktown Heights, NY, USA

1993   FREDERICK P. BROOKS, JR.   "For significant developments in computer architecture, insightful observations on software engineering, and for computer science education and professional service."
Univ. of North Carolina
Chapel Hill, NC, USA

1992   C. GORDON BELL   "For innovative contributions to computer architecture and design."
Stardent Computer
Sunnyvale, CA, USA