IEEE JOHN VON NEUMANN MEDAL
RECIPIENTS

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.”

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 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."

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.”
<table>
<thead>
<tr>
<th>Year</th>
<th>Name 1</th>
<th>Name 2</th>
<th>Award Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>OLE-JOHAN DAHL</td>
<td>KRISTEN NYGAARD</td>
<td>&quot;For the introduction of the concepts underlying object-oriented programming through the design and implementation of SIMULA 67.&quot;</td>
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<td></td>
<td>Univ of Oslo, Oslo, Norway</td>
<td>Univ of Oslo, Oslo, Norway</td>
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<td>AND</td>
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<tr>
<td>2001</td>
<td>BUTLER W. LAMPSON</td>
<td></td>
<td>&quot;For technical leadership in the creation of timesharing, distributed computing, networking security and program languages.&quot;</td>
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<tr>
<td></td>
<td>Distinguished Engineer at Microsoft and Adjunct Professor at MIT</td>
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<tr>
<td>2000</td>
<td>JOHN L. HENNESSY</td>
<td>DAVID A. PATTERSON</td>
<td>“For creating a revolution in computer architecture through their exploration, popularization, and commercialization of architectural innovations.”</td>
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<td></td>
<td>Stanford University</td>
<td>University of California at Berkeley</td>
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<td></td>
<td>Stanford, CA, USA</td>
<td>Berkeley, CA, USA</td>
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<td>AND</td>
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<tr>
<td>1999</td>
<td>DOUGLAS C. ENGELBART</td>
<td></td>
<td>&quot;For creating the foundations of real time, interactive, personal computing including CRT displays, windows, the mouse, hypermedia linking and conferencing, and on-line journals.&quot;</td>
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<td>Bootstrap Institute</td>
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<td></td>
<td>Fremont, CA, USA</td>
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<tr>
<td>1998</td>
<td>IVAN EDWARD SUTHERLAND</td>
<td></td>
<td>&quot;For pioneering contributions to computer graphics and microelectronic design, and leadership in the support of computer science and engineering research&quot;</td>
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<td>Sun Microsystems Laboratories</td>
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<td></td>
<td>Palo Alto, CA, USA</td>
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<tr>
<td>1997</td>
<td>MAURICE V. WILKES</td>
<td></td>
<td>&quot;For a lifelong career of seminal contributions to computing, including the first full-scale operational stored program computer and to the foundations of programming.&quot;</td>
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<td></td>
<td>Olivetti Research Ltd.</td>
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<td></td>
<td>Cambridge, England</td>
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<tr>
<td>1996</td>
<td>CARVER A. MEAD</td>
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<td>&quot;For leadership and innovative contributions to VLSI and creative microelectronic structures.&quot;</td>
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<tr>
<td></td>
<td>California Institute of Technology</td>
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<td></td>
<td>Pasadena, CA, USA</td>
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<tr>
<td>1995</td>
<td>DONALD E. KNUTH</td>
<td></td>
<td>&quot;For fundamental contributions to the theory and practice of computer science and to the art of computer programming.&quot;</td>
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<td>Stanford University</td>
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<td>Stanford, CA, USA</td>
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<tr>
<td>1994</td>
<td>JOHN COCKE</td>
<td></td>
<td>&quot;For contributions to the computer industry including the invention, development and implementation of Reduced Instruction Set Computer (RISC) architecture and program optimization technology.&quot;</td>
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<td>IBM/T.J. Watson Research Center</td>
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<td>Yorktown Heights, NY, USA</td>
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RECIPIENTS

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."