

IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD

RECIPIENTS

- 2022 – MURIEL MÉDARD
Cecil H. Green Professor of
Electrical Engineering and
Computer Science,
Massachusetts Institute of
Technology, Cambridge,
Massachusetts, USA
“For contributions to the theory and practice of
network coding, optical networks, and wireless
communications.”
- 2021 – HARI BALAKRISHNAN
Professor, Massachusetts
Institute of Technology,
Cambridge, Massachusetts,
USA
“For broad contributions to computer
networking and mobile and wireless systems.”
- 2020 – BALAJI PRABHAKAR
VMware Founders Professor of
Computer Science, Professor of
Electrical Engineering and
Computer Science and
Graduate School of Business,
Stanford University, Stanford,
California, USA
“For contributions to the theory and practice of
network algorithms and protocols, in particular
Internet routers, data centers, and self-
programming networks.”

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- 2019 – R. SRIKANT
Fredric G. and Elizabeth H. Nearing Endowed Professor,
Department of Electrical and Computer Engineering and
Coordinated Science Lab,
University of Illinois, Urbana,
Illinois, USA
“For contributions to congestion control and scheduling in computer communication networks.”
- 2018 - VICTOR BAHL
Distinguished Scientist,
Microsoft Research, Microsoft,
Redmond, Washington, USA
“For contributions to broadband wireless systems.”
- 2017 - KANNAN RAMCHANDRAN
Professor, University of California, Berkeley, Berkeley,
California, USA
“For pioneering contributions to the theory and practice of distributed source and storage coding.”
- 2016 – LEANDROS TASSIULAS
Professor, Yale University,
New Haven, CT, USA
“For contributions to the scheduling and stability analysis of networks.”
- 2015 - ALBERT GREENBERG
Partner, Director Azure Networking, Microsoft,
Redmond, Washington, USA
“For fundamental contributions to large-scale backbone networks and data-center networks.”
- 2014 - GEORGE VARGHESE
Principal Researcher,
Microsoft Research,
Mountain View, CA, USA
“For contributions to the field of network algorithmics and its applications to high-speed packet networks.”
- 2013 - THOMAS EDWARD ANDERSON
Robert E. Dinning Professor of Computer Science &
Engineering, University of Washington, Seattle, WA, USA
“For contributions to understanding and improving the performance, reliability, and security of the Internet.”
- 2012 - JEAN WALRAND
Professor of Electrical Engineering and Computer Sciences, University of California at Berkeley,
Berkeley, CA, USA
“For contributions to the theory and algorithms for high-speed switching and network resource allocation.”
- 2011 - THOMAS J. RICHARDSON
Vice President Engineering
Qualcomm Flarion
“For developing the theory and practice of transmitting data reliably at rates approaching channel capacity.”

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RECIPIENTS

- Technologies
NJ, USA
- AND
- RÜEDIGER L. URBANKE
Professor, Ecole Polytechnique
Fédérale de Lausanne (EPFL)
Lausanne, Switzerland
- 2010 – LARRY PETERSON
Robert E. Kahn Professor
Princeton University
Princeton, NJ, USA
- 2009 – NICK MCKEOWN
Associate Professor of Electrical
Engineering, Stanford
University,
Stanford, CA, USA
- 2008 - DON COPPERSMITH
Research Staff Member, CCR
Princeton,
Princeton, NJ, USA
- 2007 – DONALD F. TOWSLEY
Professor, Department of
Computer Science,
Amherst, MA
- 2006 - NICHOLAS F. MAXEMCHUK
Professor
Columbia University
New York, NY, USA
- 2005 – FRANK KELLY
Professor, Statistical
Laboratory, Centre for
Mathematical Sciences,
University of Cambridge
Cambridge, England
- 2004 – NOT AWARDED
- 2003 - BRUCE HAJEK
Founders Professor of
Engineering, College of
Engineering Professor
Department of Electrical and
Computer Engineering,
- "For ground-breaking contributions to the design, implementation, and deployment of networked software systems."
- "For pioneering contributions to the theory and practice of input-queued switches, their scheduling algorithms, and router buffers."
- "For outstanding achievement and ground breaking contributions in computational complexity and the theory and practice of cryptography"
- "For fundamental contributions to the theory and practice of computers and communication networks."
- "For contributions to Metropolitan and Local Area Networks, reliable multicast and protocol testing."
- "For contributions to the development of fundamental theories for the understanding, performance evaluation, and enhancement of telecommunications networks."
- "For the application of stochastic and probabilistic theory to improved understanding of computer-network behavior, particularly, the modeling and performance optimization of multiple-access channels."

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Research Professor,
Coordinated Science
Laboratory, University of Illinois
at Urbana-Champaign,
Urbana, IL, USA

2002 – VAN JACOBSON
Packet Design
Menlo Park, CA, USA

"For major contributions to the understanding of network congestion, and the development of congestion control mechanisms, enabling the successful scaling of the Internet."

2001- JOHN M. CIOFFI
Stanford University
Stanford, CA, USA

"For contributions to the development of asynchronous digital subscriber line technology, supporting theory."

2000 - RONALD LINN RIVEST
MIT, Arlington, VA, USA

"For the revolutionary invention of the RSA public key cryptosystem which is the first to be widely-adopted."

AND

ADI SHAMIR
Weizmann Institute of Science
Rehovot, Israel

AND

LEONARD ADLEMAN
University of California
Northridge, CA , USA

1999 - WHITFIELD DIFFIE
Sun Microsystems
Palo Alto, CA, USA

"For the revolutionary invention of public key cryptosystems which form the foundation for privacy, integrity and authentication in modern communication systems."

AND

MARTIN E. HELLMAN
Stanford University
Stanford, CA, USA

AND

RALPH CHARLES MERKLE
Xerox PARC
Sunnyvale, CA, USA

1998 - JACK K. WOLF
University of California
San Diego, CA, USA

"For fundamental contributions to multi-user communications and applications of coding theory to magnetic data storage devices."

1997 - TIMOTHY JOHN BERNERS-LEE
Massachusetts Inst. of
Technology
Cambridge, MA, USA

"For conceiving and pioneering the World Wide Web."

1996 - KANIANTHRA (MANI) CHANDY
California Inst. of Technology

"For fundamental contributions to the theory and practice of computer and communications

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RECIPIENTS

- Pasadena, CA, USA
- 1995 - NORMAN ABRAMSON
Database Associates
Honolulu, HI, USA
- 1994 - JONATHAN SHIELDS TURNER
Washington University
St. Louis, MO, USA
- 1993 - GOTTFRIED UNGERBOECK
IBM Zürich Research Lab.
Rüschlikon, Switzerland
- 1992 - VINTON G. CERF
AND
ROBERT E. KAHN
Corp. for Nat'l Res. Initiatives
Reston, VA, USA
- 1991 - STEPHEN S. LAVENBERG
IBM Corp.
Yorktown Heights., NY, USA
AND
MARTIN REISER
IBM
Zürich, Switzerland
- 1990 - ELWYN R. BERLEKAMP
Cyclotomics, Inc.
Berkeley, CA, USA
- 1989 - ALEXANDER G. FRASER
AT&T Bell Labs.
Murray Hill, NJ, USA
- 1988 - STUART WECKER
Bell Atlantic Co.
Sudbury, MA, USA
- performance modeling."
- "For development of the concept of the Aloha System, which led to modern local area networks."
- "For fundamental contributions to communications and computing through architectural innovation in high-speed packet networks."
- "For contributions to signal processing for data communications, specifically for pioneering trellis-coded modulation."
- "For the creation of the concept of the Transmission Control Protocol/Internet Protocol architecture for packet switched internetting."
- "For fundamental contributions to the theory and practice of computer and communications systems performance modeling."
- "For profound contributions, in mathematical theory and engineering practice, to error-correcting codes for communications and data storage."
- "For contributions to computer communications and the invention of virtual-circuit switching."
- "For contributions to distributed computer network architectures and protocol."