IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD

RECIPIENTS

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.”

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

“For contributions to understanding and improving the performance, reliability, and security of the Internet.”
IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD
RECIPIENTS

Washington, Seattle, WA, USA

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 Technologies NJ, USA
AND
RÜEDIGER L. URBANKE
Professor, Ecole Polytechnique Fédérale de Lausanne (EPFL) Lausanne, Switzerland
“For developing the theory and practice of transmitting data reliably at rates approaching channel capacity.”

2010 – LARRY PETERSON
Robert E. Kahn Professor Princeton University Princeton, NJ, USA
“For ground-breaking contributions to the design, implementation, and deployment of networked software systems.”

2009 – NICK MCKEOWN
Associate Professor of Electrical Engineering, Stanford University, Stanford, CA, USA
“For pioneering contributions to the theory and practice of input-queued switches, their scheduling algorithms, and router buffers.”

2008 - DON COPPERSMITH
Research Staff Member, CCR Princeton, Princeton, NJ, USA
“For outstanding achievement and ground breaking contributions in computational complexity and the theory and practice of cryptography”

2007 – DONALD F. TOWSLEY
Professor, Department of Computer Science, Amherst, MA
“For fundamental contributions to the theory and practice of computers and communication networks.”

2006 - NICHOLAS F. MAXEMCHUK
Professor Columbia University New York, NY, USA
“For contributions to Metropolitan and Local Area Networks, reliable multicast and protocol testing.”

2005 – FRANK KELLY
“For contributions to the development of
IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD

RECIPIENTS

Professor, Statistical Laboratory, Centre for Mathematical Sciences, University of Cambridge Cambridge, England

fundamental theories for the understanding, performance evaluation, and enhancement of telecommunications networks.”

2004 – NOT AWARDED

2003 - BRUCE HAJEK
Founders Professor of Engineering, College of Engineering Professor Department of Electrical and Computer Engineering, Research Professor, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign, Urbana, IL, USA

"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."

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

AND

ADI SHAMIR
Weizmann Institute of Science Rehovot, Israel

AND

LEONARD ADLEMAN
University of California Northridge, CA, USA

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

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

AND

MARTIN E. HELLMAN
Stanford University Stanford, CA, USA

“For the revolutionary invention of public key cryptosystems which form the foundation for privacy, integrity and authentication in modern communication systems.”
IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD
RECIPIENTS

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
Pasadena, CA, USA
"For fundamental contributions to the theory and practice of computer and communications performance modeling."

1995 - NORMAN ABRAMSON
Database Associates
Honolulu, HI, USA
"For development of the concept of the Aloha System, which led to modern local area networks."

1994 - JONATHAN SHIELDS TURNER
Washington University
St. Louis, MO, USA
"For fundamental contributions to communications and computing through architectural innovation in high-speed packet networks."

1993 - GOTTFRID UNGERBOECK
IBM Zürich Research Lab.
Rüschlikon, Switzerland
"For contributions to signal processing for data communications, specifically for pioneering trellis-coded modulation."

1992 - VINTON G. CERF
AND
ROBERT E. KAHN
Corp. for Nat'l Res. Initiatives
Reston, VA, USA
"For the creation of the concept of the Transmission Control Protocol/Internet Protocol architecture for packet switched interneting."

1991 - STEPHEN S. LAVENBERG
IBM Corp.
Yorktown Heights., NY, USA
"For fundamental contributions to the theory and practice of computer and communications systems performance modeling."

AND
MARTIN REISER
IBM
Zürich, Switzerland

1990 - ELWYN R. BERLEKAMP
Cyclotomics, Inc.
"For profound contributions, in mathematical theory and engineering practice, to
IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD
RECIPIENTS

Berkeley, CA, USA  error-correcting codes for communications and data storage."

1989 - ALEXANDER G. FRASER  "For contributions to computer communications
AT&T Bell Labs.  and the invention of virtual-circuit switching."
Murray Hill, NJ, USA

1988 - STUART WECKER  "For contributions to distributed computer
Bell Atlantic Co.  network architectures and protocol."
Sudbury, MA, USA