

## **IEEE KOJI KOBAYASHI COMPUTERS AND COMMUNICATIONS AWARD**

### **RECIPIENTS**

- 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  
“For developing the theory and practice of

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- Vice President Engineering  
Qualcomm Flarion  
Technologies  
NJ, USA
- transmitting data reliably at rates approaching channel capacity.”
- 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
- “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  
Professor, Statistical  
Laboratory, Centre for  
Mathematical Sciences,  
University of Cambridge  
Cambridge, England
- “For contributions to the development of fundamental theories for the understanding, performance evaluation, and enhancement of telecommunications networks.”
- 2004 – NOT AWARDED
- 2003 - BRUCE HAJEK  
Founders Professor of
- “For the application of stochastic and probabilistic theory to improved understanding

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- 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
- 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  
AND  
RALPH CHARLES MERKLE  
Xerox PARC  
Sunnyvale, CA, USA
- "For the revolutionary invention of public key  
cryptosystems which form the foundation for  
privacy, integrity and authentication in modern  
communication systems."
- 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
- "For conceiving and pioneering the World Wide

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### RECIPIENTS

- Massachusetts Inst. of  
Technology  
Cambridge, MA, USA
- 1996 - KANIANTHRA (MANI) CHANDY  
California Inst. of Technology  
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
- Web."
- "For fundamental contributions to the theory and practice of computer and communications 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."

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