2024	ALEXANDER BARG (FIEEE)— Professor of Electrical Engineering and Computer Engineering, University of Maryland, College Park, Maryland, USA	"For contributions to the theory of error-correcting codes and their applications in distributed storage, non-volatile memory, and digital fingerprinting."
2023	FRANK KSCHISCHANG (FIEEE)—Professor, The Edward S. Rogers Sr. Department of Electrical and Computer Engineering, University of Toronto, Toronto, Ontario, Canada	"For contributions to the theory and practice of error correcting codes and optical communications."
2022	MADHU SUDAN (FIEEE)— Professor, Harvard University, Cambridge, Massachusetts, USA	"For fundamental contributions to probabilistically checkable proofs and list decoding of Reed-Solomon codes."
2021	RAYMOND W. YEUNG (FIEEE)— Choh-Ming Li Professor of Information Engineering, The Chinese University of Hong Kong, Hong Kong, China	"For fundamental contributions to information theory and pioneering network coding and its applications."
2020	CYNTHIA DWORK Gordon McKay Professor of Computer Science, Harvard University, Cambridge, Massachusetts, USA	"For foundational work in privacy, cryptography, and distributed computing, and for leadership in developing differential privacy."
2019	DAVID TSE Professor, Stanford University, Stanford, California, USA	"For seminal contributions to wireless network information theory and wireless network systems."
2018	ERDAL ARIKAN Professor, Department of Electrical Engineering, Bilkent University, Ankara, Turkey	"For contributions to information and communications theory, especially the discovery of polar codes and polarization techniques."
2017	SHLOMO SHAMAI Professor, Technion-Israel Institute of Technology, Haifa, Israel	"For fundamental contributions to information theory and wireless communications."
2016	ABBAS EL GAMAL Professor and Department Chair, Department of Electrical Engineering, Stanford	"For contributions to network multi-user information theory and for wide ranging impact on programmable circuit architectures."
2020 2019 2018 2017	RAYMOND W. YEUNG (FIEEE)— Choh-Ming Li Professor of Information Engineering, The Chinese University of Hong Kong, Hong Kong, China CYNTHIA DWORK Gordon McKay Professor of Computer Science, Harvard University, Cambridge, Massachusetts, USA DAVID TSE Professor, Stanford University, Stanford, California, USA ERDAL ARIKAN Professor, Department of Electrical Engineering, Bilkent University, Ankara, Turkey SHLOMO SHAMAI Professor, Technion-Israel Institute of Technology, Haifa, Israel ABBAS EL GAMAL Professor and Department Chair, Department of Electrical	"For foundational work in privacy, cryptography, and distributed computing, and for leadership in developing differential privacy." "For seminal contributions to wireless network information theory and wireless network systems." "For contributions to information and communications theory, especially the discovery of polar codes and polarization techniques." "For fundamental contributions to information theory and wireless communications." "For contributions to network multi-user information theory and for wide ranging impact on programmable

University, Stanford, California, USA

2015 IMRE CSISZAR Research Professor, A. Rényi

Institute of Mathematics, Hungarian Academy of Sciences, Budapest, Hungary "For contributions to information theory, informationtheoretic security, and statistics."

2014 THOMAS RICHARDSON Vice President, Engineering,

Qualcomm, Bridgewater, New Jersey, USA

"For fundamental contributions to coding theory, iterative information processing, and applications."

RÜDIGER URBANKE AND

Professor, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland

2013 ROBERT CALDERBANK

Professor, Electrical and Computer Engineering, Duke University, Durham, NC, USA "For fundamental contributions to coding theory that impacted voice-band modems and wireless communication."

2012 MICHAEL G. LUBY Vice President of Technology,

QUALCOMM, Inc., Berkeley, CA, USA

"For the conception, development, and analysis of practical rateless codes."

AND AMIN SHOKROLLAHI

Professor of Math and Computer Science, EPFL, and Chief Scientist, Digital Fountain, Inc., Lausanne, Switzerland

> "For contributions to Information Theory, including source coding and its applications."

2011 TOBY BERGER

Irwin and Joan Jacobs Professor Engineering, Emeritus, Cornell University, and Professor of **Electrical and Computer** Engineering, University of Virginia, Charlottesville, VA, USA

2010 WHITFIELD DIFFIE

Vice President, Fellow and Chief Security Officer, Sun Microsystems, Menlo Park, CA, **USA**

"For the invention of public key cryptography and its application to secure communications."

AND	MARTIN HELLMAN Professor Emeritus of Electrical Engineering, Stanford University, Stanford, CA, USA	
AND	RALPH MERKLE Senior Research Fellow, Institute for Molecular Manufacturing, Cupertino, CA, USA	
2009	PETER FRANASZEK IBM Research, Research, Yorktown Heights, NY, USA	"For pioneering contributions to the theory and practice of constrained channel coding."
2008	SERGIO VERDU Prof. of Electrical Engineering, Princeton Univ., Princeton, NJ, USA	"For fundamental contributions to information theory and the development of multiuser detection."
2007	ABRAHAM LEMPEL Director of the HP Labs Advanced Studies Program and Director of HP Labs Israel, Hewlett-Packard Labs, Haifa, Israel	"For pioneering work in data compression especially the Lempel-Ziv algorithm."
2006	VLADIMIR I. LEVENSHTEIN Leading Scientific Researcher, Keldysh Institute for Applied Mathematics, Moscow, Russia	"For contributions to the theory of error-correcting codes and information theory, including the Levenshtein distance."
2005	NEIL J.A. SLOANE Technology Leader, AT&T Labs, Florham Park, NJ, USA	"For contributions to coding theory and its applications to communications, computer science, mathematics and statistics."
2004	JACK K. WOLF Stephen O. Rice Prof, Dept of E&CE and Endowed Chair, Center for Magnetic Recording Research Univ. of California, San Diego, La Jolla, CA, USA	"For fundamental contributions to the theory and practice of information transmission and storage."
2003	CLAUDE BERROU ALAIN GLAVIEUX Professors, Ecole Nationale Superieure des Telecommunications de	"For the invention of turbo codes, which have revolutionized digital communications."

Bretagne, Brest, France

2002	PETER ELIAS MIT, Cambridge, MA, USA	"For fundamental and pioneering contributions to information theory and its applications."
2001	A.G. (SANDY) FRASER Chief Scientist, AT&T Research Labs, Florham Park, NJ, USA	"For pioneering contributions to the architecture of communication networks through the development of virtual circuit switching technology."
2000	SOLOMON W. GOLOMB University of Southern California, Los Angeles, CA, USA	"For fundamental contributions to the theory of shift register sequences and their applications in digital communications.
1999	DAVID A. HUFFMAN University of California Santa Cruz, CA, USA	"For design procedures of minimum redundancy (Huffman) codes and asynchronous sequential circuits, and contributions to analysis of visual imagery."
1998	DAVID D. CLARK MIT, Cambridge, MA, USA	"For leadership and major contributions to the architecture of the Internet as a universal information medium"
1997	THOMAS M. COVER Stanford University Stanford, CA, USA	"For fundamental contributions to information and communication theory, statistics and pattern recognition."
1996	MARK S. PINSKER Institute for Information Transmission Problems (IITP) Russian Academy of Sciences Moscow, Russia	"For outstanding contributions to information theory, statistical estimation and coding theory."
1995	JACOB ZIV Technion-Israel Inst. of Tech. Haifa, Israel	"For contributions to information theory, and the theory and practice of data compression."
1994	GOTTFRIED UNGERBOECK IBM Zürich Research Laboratory Ruschlikon, Switzerland	"For the development and application of trellis modulation to digital communications."
1993	JORMA J. RISSANEN IBM Corporation San Jose, CA, USA	"For fundamental contributions to information theory, statistical inference, control theory, and the theory of complexity."
1992	LOTFI A. ZADEH University of California Berkeley, CA, USA	"For seminal contributions to information science and systems, including the conceptualization of fuzzy sets."
1991	ELWYN R. BERLEKAMP AXCOM, Inc. Berkeley, CA, USA	"For profound contributions to the theory and application of error-correcting codes."

1990	DENNIS M. RITCHIE AT& T Bell Laboratories Murray Hill, NJ, USA	"For the origination of the UNIX operating system and the C programming language."
AND	KENNETH L. THOMPSON AT& T Bell Laboratories, Murray Hill, NJ, USA	
1989	IRVING S. REED University of Southern California Los Angeles, CA, USA	"For contributions to multiple error-correcting codes, digital computer design, and automatic detection and processing of signals in noise."
1988	RICHARD W. HAMMING U.S. Naval Postgrad. School Monterey, CA, USA	"For exceptional and pioneering contributions to information sciences and systems, and for inspiring generations of researchers in these fields."