

IEEE RICHARD W. HAMMING MEDAL
RECIPIENTS

- 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
University, Stanford, California,
USA "For contributions to network multi-user information
theory and for wide ranging impact on programmable
circuit architectures."
- 2015 IMRE CSISZAR
Research Professor, A. Rényi
Institute of Mathematics,
Hungarian Academy of
Sciences, Budapest, Hungary "For contributions to information theory, information-
theoretic 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."
- AND RÜDIGER URBANKE
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
- 2011 TOBY BERGER
Irwin and Joan Jacobs Professor
Engineering, Emeritus, Cornell
University, and Professor of
Electrical and Computer "For contributions to Information Theory, including
source coding and its applications."

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Engineering, University of
Virginia, Charlottesville, VA,
USA

- 2010 WHITFIELD DIFFIE "For the invention of public key cryptography and its application to secure communications."
Vice President, Fellow and Chief Security Officer, Sun Microsystems, Menlo Park, CA, USA
- 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 "For pioneering contributions to the theory and practice of constrained channel coding."
IBM Research, Research, Yorktown Heights, NY, USA
- 2008 SERGIO VERDU "For fundamental contributions to information theory and the development of multiuser detection."
Prof. of Electrical Engineering, Princeton Univ., Princeton, NJ, USA
- 2007 ABRAHAM LEMPEL "For pioneering work in data compression especially the Lempel-Ziv algorithm."
Director of the HP Labs Advanced Studies Program and Director of HP Labs Israel, Hewlett-Packard Labs, Haifa, Israel
- 2006 VLADIMIR I. LEVENSHTAIN "For contributions to the theory of error-correcting codes and information theory, including the Levenshtein distance."
Leading Scientific Researcher, Keldysh Institute for Applied Mathematics, Moscow, Russia
- 2005 NEIL J.A. SLOANE "For contributions to coding theory and its applications to communications, computer science, mathematics and statistics."
Technology Leader, AT&T Labs, Florham Park, NJ, USA
- 2004 JACK K. WOLF "For fundamental contributions to the theory and practice of information transmission and storage."
Stephen O. Rice Prof, Dept of E&CE and Endowed Chair,

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Center for Magnetic Recording
Research
Univ. of California, San Diego,
La Jolla, CA, USA

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| 2003 | CLAUDE BERROU
ALAIN GLAVIEUX
Professors, Ecole Nationale
Superieure des
Telecommunications de
Bretagne, Brest, France | "For the invention of turbo codes, which have revolutionized digital communications." |
| 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." |

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| 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." |