

IEEE ALEXANDER GRAHAM BELL MEDAL
RECIPIENTS

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| 2018 | NAMBIRAJAN SESHADRI
Former Chief Technology
Officer, Broadcom Corporation,
Irvine, California, USA | "For contributions to the theory and
practice of wireless communications." |
| 2017 | H. VINCENT POOR
Michael Henry Strater
University Professor of Electrical
Engineering, Princeton
University, Princeton, NJ, USA | "For fundamental contributions to signal
processing and its application to digital
communications." |
| 2016 | ROBERTO PADOVANI
Executive Vice President and
Fellow, Qualcomm
Technologies, San Diego, CA,
USA | "For innovations enabling efficient,
wideband, wireless access to the Internet,
that is central to all third-generation
cellular networks." |
| 2015 | FRANK KELLY
Professor, University of
Cambridge, Cambridgeshire,
United Kingdom | "For creating principled mathematical
foundations for the design and analysis of
congestion control, routing, and blocking in
modern communication networks." |
| 2014 | DARIUSH DIVSALAR
Senior Research Scientist, Jet
Propulsion Laboratory,
Pasadena, CA, USA | "For fundamental contributions to the
theory and practice of channel codes that
transformed deep space and other forms of
wireless communications." |
| 2013 | ANDREW R. CHRAPLYVY
Optical Technologies Research
vice-president, Alcatel-Lucent,
Holmdel, NJ, USA | "For contributions to the science and
technology of optical communications
enabling high-speed wavelength division
multiplexing through the mitigation of the
effects of fiber nonlinearity." |
| AND | ROBERT WILLIAM TKACH
Director of the Advanced
Photonics Research Department
at Bell Labs, Alcatel-Lucent,
Holmdel, NJ, USA | |
| 2012 | LEONARD KLEINROCK
Professor, Computer Science
Department, University of
California, Los Angeles, Los
Angeles, CA, USA | "For pioneering contributions to modeling,
analysis, and design of packet-switching
networks." |
| 2011 | AROGYASWAMI J. PAULRAJ
Professor (Emeritus), Stanford
University, Stanford, CA, USA | "For pioneering contributions to the
application of multiantenna technology to
wireless communication systems." |

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2010	JOHN M. CIOFFI Hitachi America Professor of Electrical Engineering, Stanford University, Stanford, CA, USA	"For pioneering discrete multitone modem technology as the foundation of the global DSL industry."
2009	ROBERT J. MCELIECE Allan E. Puckett Professor and Professor of Electrical Engineering California Institute of Technology Pasadena, CA, USA	"For fundamental contributions to the theory and practice of error-correcting codes and to the design of deep space telecommunication systems."
2008	GERARD J. FOSCHINI Bell Labs Fellow, Wireless Communications Research Department, Bell Laboratories, Alcatel-Lucent, Holmdel, NJ, USA	"For seminal contributions to the science and technology of multiple-antenna wireless communications."
2007	NORMAN ABRAMSON Vice President and CTO of SkyWare, Inc. San Francisco, CA, USA	"For contributions to the development of modern data networks through fundamental work in random multiple access"
2006	JOHN M. WOZENCRAFT Professor Emeritus, Electrical Engineering and Computer Science, MIT., Cambridge, MA, USA	"For the development of sequential decoding and the signal space approach to digital communication."
2005	JIM K. OMURA Technology Strategist, Gordon & Betty Moore Foundation, San Francisco, CA, USA	"For contributions to the theory of communication systems and the commercial applications of spread spectrum radios and public key cryptography."
2004	NOT AWARDED	
2003	JOACHIM HAGENAUER Munich University of Technology Munich, Germany	"For contributions to soft decoding and its application to iterative decoding algorithm"
2002	TSUNEO NAKAHARA Sumitomo Electric Industries	"For pioneering work on the design and development of manufacturing systems for

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	Osaka, Japan	optical fibers."
2001	NOT AWARDED	
2000	VLADIMIR A. KOTELNIKOV Russian Academy of Sciences Moscow, Russia	"For fundamental contributions to signal theory."
1999	DAVID G. MESSERSCHMITT University of California, Berkeley Berkeley, CA, USA	"For fundamental contributions to communications theory and practice, including VLSI for signal processing, and simulation and modeling software."
1998	RICHARD E. BLAHUT Dept. of Electrical & Computer Science University of Illinois, Urbana, IL, USA	"For contributions to error-control coding, particularly by combining algebraic coding theory and digital transform techniques"
1997	VINTON G. CERF Sr. Vice President MCI Telecommunications Corp. Reston, VA, USA	"For conceiving the Internet architecture and protocols, and for the vision and sustained leadership that led to the current Internet."
AND	ROBERT E. KAHN Founder and President Corp for National Research Initiative (CNRI), Reston, VA, USA	
1996	TADAHIRO SEKIMOTO NEC Corporation, Tokyo, Japan	"For pioneering contributions to digital satellite communications and industry leadership in developing digital communications."
1995	IRWIN M. JACOBS QUALCOMM, Inc., San Diego, CA, USA	"For outstanding contributions to telecommunications, including leadership, theory, practice and product development."
1994	HIROSHI INOSE NCSIS, Tokyo, Japan	"For pioneering contributions to digital switching and modulation, and for leadership in international telecommunications."
1993	DONALD C. COX Bellcore, Red Bank, NJ, USA	"For pioneering and leadership in personal portable communications."

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| 1992 | JAMES L. MASSEY
Swiss Fed. Tech. University
Zurich, Switzerland | "For contributions to the theory and practical implementation of forward-error-correcting codes, multi-user communications, and cryptographic systems; and for excellence in engineering education." |
| 1991 | C. CHAPIN CUTLER
The Compromise,
Waterford, ME, USA | "For the invention and development of predictive coding of pictures and picture sequences." |
| | AND JOHN O. LIMB
Hewlett-Packard,
Cupertino, CA, USA | |
| | AND ARUN N. NETRAVALI
AT&T Bell Labs.,
Murray Hill, NJ, USA | |
| 1990 | PAUL BARAN
Interfax Inc.,
Menlo Park, CA, USA | "For pioneering in Packet Switching." |
| 1989 | GERALD R. ASH | "For contributions to the conception and implementation of Dynamic Nonhierarchical Routing (DNHR) in telecommunications networks." |
| | AND BILLY B. OLIVER
AT&T Bell Labs,
Holmdel, NJ, USA | |
| 1988 | ROBERT M. METCALFE
3Com Corp.,
Santa Clara, CA, USA | "For contributions to the invention, standardization and commercialization of local area networks -- especially the Ethernet." |
| 1987 | JOEL S. ENGEL
Satellite Business Systems
McLean, VA, USA | "For fundamental contributions to the theory, design and deployment of cellular mobile communications systems." |
| | AND RICHARD H. FRENKIEL
AT&T Information Systems
Labs
Holmdel, NJ, USA | |
| | AND WILLIAM C. JAKES, JR.
AT&T Bell Labs,
Andover, MA, USA | |
| 1986 | BERNARD WIDROW | "For fundamental contributions to adaptive |

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	Stanford University, Palo Alto, CA, USA	filtering, adaptive noise and echo cancellation, and adaptive antennas."
1985	CHARLES K. KAO ITT Corp., Shelton, CT, USA	"For pioneering contributions to optical fiber communications."
1984	ANDREW J. VITERBI Linkabit Corp., San Diego, CA, USA	"For fundamental contributions to telecommunication theory and practice and for leadership in teaching."
1983	STEPHEN O. RICE Univ. of California, San Diego, CA, USA	"For his contributions to the fundamental understanding of communications systems and to the underlying mathematics, and for inspiring younger scientists and engineers."
1982	HAROLD A. ROSEN Hughes Aircraft Company El Segundo, CA, USA	"For pioneering contributions to, and leadership in, geostationary communication satellites."
1981	DAVID SLEPIAN Bell Labs, Murray Hill, NJ, USA	"For fundamental contributions to communication theory."
1980	RICHARD R. HOUGH AT&T, Basking Ridge, NJ, USA	"For his contributions to the nationwide and international telephone network and, particularly, the introduction of electronic switching therein."
1979	A. CHRISTIAN JACOBÆUS Telefonaktiebolaget Stockholm, Sweden	"For pioneering work in the theory of switching systems and technical leadership in the development of telecommunication systems."
1978	M. ROBERT AARON Bell Labs, Holmdel, NJ, USA	"For personal contributions to, and leadership in, the practical realization of high-speed digital communications."
	AND JOHN S. MAYO Bell Labs, Murray Hill, NJ, USA	
	AND ERIC E. SUMNER Bell Labs, Whippany, NJ, USA	
1977	EBERHARDT RECHTIN Hewlett-Packard Co., Palo Alto, CA, USA	"For pioneering and lasting contributions to deep-space-vehicle communications technology and for leadership in defense telecommunications."

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1976	AMOS E. JOEL, JR.	"For conception and development of Electronic Switching Systems and their effective introduction into a nation-wide telephone system."
AND	WILLIAM KEISTER	
AND	RAYMOND W. KETCHLEDGE Bell Telephone Labs, Inc., Holmdel, NJ, USA	