

**IEEE ALEXANDER GRAHAM BELL MEDAL
RECIPIENTS**

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|------|---|--|
| 2024 | JENNIFER REXFORD (FIEEE)—
Provost, Professor of Computer
Science, and Gordon Y. S. Wu
Professor in Engineering,
Princeton University, Princeton,
New Jersey, USA | “For contributions to Internet wide-area
routing and software-defined networking.” |
| 2023 | INGEBORG J. HOCHMAIR-
DESOYER (SMIEEE)—CEO and
CTO, MED-EL
Elektromedizinische Geräte
GmbH, Innsbruck, Tyrol,
Austria | “For the research, development, and
realization of multi-channel microelectronic
cochlear implants.” |
| | and | |
| | ERWIN HOCHMAIR (MIEEE)—
CEO and CTO, MED-EL
Elektromedizinische Geräte
GmbH, Innsbruck, Tyrol,
Austria | |
| 2022 | P. R. KUMAR (LFIEEE)—
Professor, Electrical &
Computer Engineering and
Industrial & Systems
Engineering, Texas A&M
University, College Station,
Texas, USA | “For seminal contributions to the modeling,
analysis, and design of wireless networks.” |
| 2021 | NICHOLAS M. MCKEOWN
(FIEEE)—Professor of Electrical
Engineering and Computer
Science, Stanford University,
Stanford, California, USA | “For contributions to internet router
architecture and software-defined
networking.” |
| 2020 | RAJIV LAROIA
Founder & CTO, Light
Company, Far Hills, New
Jersey, USA | “For contributions to cellular wireless data
systems.” |
| 2019 | TERESA HUAI-YING MENG
Professor Emeritus, Reif
Weaver Dennis Professor in
Electrical Engineering and
Professor of Computer Science,
Stanford, California, USA | “For technical contributions to and
leadership in the development of wireless
semiconductor technology.” |
| 2018 | NAMBIRAJAN SESHADRI | “For contributions to the theory and |

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| | Former Chief Technology Officer, Broadcom Corporation, Irvine, California, USA | 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.” |
| 2010 | JOHN M. CIOFFI | “For pioneering discrete multitone modem |

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	Hitachi America Professor of Electrical Engineering, Stanford University, Stanford, CA, USA	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 Osaka, Japan	"For pioneering work on the design and development of manufacturing systems for optical fibers."
2001	NOT AWARDED	

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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."
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

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- 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 "For pioneering in Packet Switching."
Interfax Inc.,
Menlo Park, CA, USA
- 1989 GERALD R. ASH "For contributions to the conception and implementation of Dynamic
AND BILLY B. OLIVER Nonhierarchical Routing (DNHR) in
AT&T Bell Labs, telecommunications networks."
Holmdel, NJ, USA
- 1988 ROBERT M. METCALFE "For contributions to the invention,
3Com Corp., standardization and commercialization of
Santa Clara, CA, USA local area networks -- especially the
Ethernet."
- 1987 JOEL S. ENGEL "For fundamental contributions to the
Satellite Business Systems theory, design and deployment of cellular
McLean, VA, USA 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
Stanford University, filtering, adaptive noise and echo
Palo Alto, CA, USA cancellation, and adaptive antennas."
- 1985 CHARLES K. KAO "For pioneering contributions to optical
ITT Corp., Shelton, CT, USA fiber communications."

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| 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." |
| 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 | |

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