

**IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL
RECIPIENTS**

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|------|--|--|
| 2024 | PALGHAT P. VAIDYANATHAN (LFIEEE)—Kiyoo and Eiko Tomiyasu Professor of Electrical Engineering, California Institute of Technology, Pasadena, California, USA | "For contributions to multirate digital filter banks and sparse array signal processing." |
| 2023 | JOSÉ M. F. MOURA (LFIEEE)—Philip L. and Marsha Dowd University Professor, Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA | "For contributions to theory and practice of statistical, graph, and distributed signal processing." |
| 2022 | DAVID L. DONOHO (FIEEE)—Anne T. and Robert M. Bass Professor of Humanities and Sciences, Professor of Statistics, Department of Statistics, Stanford University, Stanford, California, USA | "For groundbreaking contributions to sparse signal recovery and compressed sensing." |
| 2021 | EMMANUEL CANDÈS (nonmember)—The Barnum-Simons Chair in Mathematics and Statistics, Stanford University, Stanford, California, USA | "For groundbreaking contributions to compressed sensing." |

AND

TERENCE TAO
(nonmember)—Professor,
Department of Mathematics,
University of California, Los
Angeles, California, USA

AND

JUSTIN ROMBERG (FIEEE)—
Schlumberger Professor and
the Associate Chair for
Research, School of Electrical
and Computer Engineering;
and Associate Director for

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the Center for Machine Learning, Georgia Institute of Technology, Atlanta, Georgia, USA

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|------|---|--|
| 2020 | <p>RAMALINGAM CHELLAPPA
Distinguished University Professor, Electrical and Computer Engineering, University of Maryland, College Park, Maryland, USA</p> | <p>“For contributions to image and video processing, especially applications to face recognition.”</p> |
| 2019 | <p>ALAN WILLSKY
Edwin S. Webster Professor of EECS, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA</p> | <p>“For contributions to stochastic modeling, multi-resolution techniques, and control-signal processing synergies.”</p> |
| 2018 | <p>BEDE LIU
Professor Emeritus
Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA</p> | <p>“For sustained contributions to the analysis and the development of low-complexity realizations of digital signal processing algorithms.”</p> |
| 2017 | <p>MARTIN VETTERLI
Professor, EPFL, Lausanne, Switzerland</p> | <p>“For fundamental contributions to advanced sampling, signal representations, and multirate and multiresolution signal processing.”</p> |
| 2016 | <p>LOUIS L. SCHARF
Research Professor of Mathematics and Emeritus Professor of Electrical and Computer Engineering, Colorado State University, Fort Collins, Colorado, USA</p> | <p>“For pioneering and sustained contributions to statistical signal processing and its practice.”</p> |
| 2015 | <p>HARRY L. VAN TREES
University Professor Emeritus
Affiliation, George Mason University, Stanardsville, Virginia, USA</p> | <p>“For fundamental contributions to detection, estimation, and modulation theory; sensor array processing; and Bayesian bounds.”</p> |
| 2014 | <p>THOMAS P. BARNWELL, III
Professor Emeritus, Georgia Institute of Technology, Vinings, Georgia, USA</p> | <p>“For leadership in and contributions to speech processing, filter banks and wavelets, DSP hardware and architectures, and technology-enhanced education.”</p> |

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| 2013 | BISHNU S. ATAL
Affiliate Professor, Electrical
Engineering Department,
University of Washington,
Seattle, WA, USA | "For fundamental and pioneering
contributions to speech coding." |
| 2012 | CLIFFORD CARTER
(Retired), U.S. Navy's Senior
Technologist (ST) for
Acoustic Signal Processing,
Naval Undersea Warfare
Center (NUWC) Division
Newport, Newport, RI, USA | "For contributions to the fundamentals of
coherence and time-delay estimation and to
underwater acoustics signal processing." |
| 2011 | INGRID DAUBECHIES
Professor, William R. Kenan,
Jr., Department of
Mathematics and Program for
Applied Mathematics,
Princeton University,
Princeton, NJ, USA | "For pioneering contributions to the theory
and applications of wavelets and filter
banks." |
| 2010 | RONALD SCHAFER
HP Fellow, Hewlett Packard,
Palo Alto, CA, USA | "For leadership and pioneering contributions
to the field of digital signal processing." |
| 2009 | CHARLES SIDNEY BURRUS
Dean (Emeritus), Rice
University College of Eng.,
Houston, TX, USA | "For contributions to Fast Fourier Transform
algorithms, digital filter design, and signal
processing education." |
| 2008 | ROBERT M. GRAY
Lucent Technologies Prof. of
Engineering, EE Dept
Stanford Univ., Stanford, CA,
USA | "For contributions to vector quantization and
signal compression techniques." |
| 2007 | ALAN V. OPPENHEIM
Ford Professor of
Engineering, MIT,
Department of EECS,
Cambridge, MA, USA | "For visionary leadership and exceptional
contributions to the field of digital signal
processing." |
| 2006 | THOMAS KAILATH
Hitachi America Prof. of | "For seminal contributions to the theory and
applications of statistical signal processing." |

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Engineering, Emeritus, Dept
of EE, Stanford University,
Stanford, CA, USA

2005 FUMITADA ITAKURA "For pioneering contributions to narrow-band
Prof., Meijo University, speech coding."
Nagoya, Japan

2004 THOMAS W. PARKS "For fundamental contributions to digital filter
Prof., School of Electrical design and interpolation, especially the
Eng, Cornell Univ., Ithaca, Parks-McClellan algorithm."
NY, USA

AND JAMES H. McCLELLAN
Prof., School of Electrical and
Computer Engineering
Georgia Institute of Tech.
Atlanta, GA, USA

2003 HANS W. SCHUESSLER "For his role in the early development of the
Professor Emeritus field of Digital Signal Processing, especially
Univ. of Erlangen-Nuernberg the theory, design, and implementation of
Erlangen, Germany analog and digital filters."

2002 JAMES W. COOLEY "For pioneering the Fast Fourier Transform
Consultant, South Kingstown, (FFT) algorithm."
RI, USA

2001 THOMAS S. HUANG "For pioneering and sustained contributions
Faculty Member, Univ of to image sequence processing and its
Illinois applications to digital TV, to pattern
Urbana-Champaign, IL, USA recognition, and to computer animation."

AND ARUN N. NETRAVALI
President, Bell Labs, NJ, USA

2000 JAMES F. KAISER "For his pioneering contributions in digital
Duke University filter design and implementations, and his
Durham, NC, USA role in the early development of the field of
Digital Signal Processing.

1999 LAWRENCE R. RABINER "For far-reaching impact on the fields of
AT&T Labs digital signal processing and automatic
Florham Park, NJ, USA speech recognition, through leadership,
research, and education."

1998 THOMAS G. STOCKHAM "For pioneering the field of digital audio
University of Utah processing"

