IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL RECIPIENTS

2024 PALGHAT P. VAIDYANATHAN (LFIEEE)—Kiyo 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

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

“For groundbreaking contributions to compressed sensing.”
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the Center for Machine Learning, Georgia Institute of Technology, Atlanta, Georgia, USA

2020 RAMALINGAM CHELLAPPA
Distinguished University Professor, Electrical and Computer Engineering, University of Maryland, College Park, Maryland, USA
“For contributions to image and video processing, especially applications to face recognition.”

2019 ALAN WILLSKY
Edwin S. Webster Professor of EECS, Massachusetts Institute of Technology, Cambridge, Massachusetts, USA
“For contributions to stochastic modeling, multi-resolution techniques, and control-signal processing synergies.”

2018 BEDE LIU
Professor Emeritus
Department of Electrical Engineering, Princeton University, Princeton, New Jersey, USA
“For sustained contributions to the analysis and the development of low-complexity realizations of digital signal processing algorithms.”

2017 MARTIN VETTERLI
Professor, EPFL, Lausanne, Switzerland
“For fundamental contributions to advanced sampling, signal representations, and multirate and multiresolution signal processing.”

2016 LOUIS L. SCHARF
Research Professor of Mathematics and Emeritus Professor of Electrical and Computer Engineering, Colorado State University, Fort Collins, Colorado, USA
“For pioneering and sustained contributions to statistical signal processing and its practice.”

2015 HARRY L. VAN TREES
University Professor Emeritus Affiliation, George Mason University, Stanardsville, Virginia, USA
“For fundamental contributions to detection, estimation, and modulation theory; sensor array processing; and Bayesian bounds.”

2014 THOMAS P. BARNWELL, III
Professor Emeritus, Georgia Institute of Technology, Vinings, Georgia, USA
“For leadership in and contributions to speech processing, filter banks and wavelets, DSP hardware and architectures, and technology-enhanced education.”
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Affiliation</th>
<th>Contributions</th>
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<tbody>
<tr>
<td>2013</td>
<td>BISHNU S. ATAL</td>
<td>Affiliate Professor, Electrical Engineering Department, University of Washington, Seattle, WA, USA</td>
<td>“For fundamental and pioneering contributions to speech coding.”</td>
</tr>
<tr>
<td>2012</td>
<td>CLIFFORD CARTER</td>
<td>(Retired), U.S. Navy’s Senior Technologist (ST) for Acoustic Signal Processing, Naval Undersea Warfare Center (NUWC) Division, Newport, Newport, RI, USA</td>
<td>“For contributions to the fundamentals of coherence and time-delay estimation and to underwater acoustics signal processing.”</td>
</tr>
<tr>
<td>2011</td>
<td>INGRID DAUBECHIES</td>
<td>Professor, William R. Kenan, Jr., Department of Mathematics and Program for Applied Mathematics, Princeton University, Princeton, NJ, USA</td>
<td>“For pioneering contributions to the theory and applications of wavelets and filter banks.”</td>
</tr>
<tr>
<td>2010</td>
<td>RONALD SCHAFER</td>
<td>HP Fellow, Hewlett Packard, Palo Alto, CA, USA</td>
<td>“For leadership and pioneering contributions to the field of digital signal processing.”</td>
</tr>
<tr>
<td>2009</td>
<td>CHARLES SIDNEY BURRUS</td>
<td>Dean (Emeritus), Rice University College of Eng., Houston, TX, USA</td>
<td>“For contributions to Fast Fourier Transform algorithms, digital filter design, and signal processing education.”</td>
</tr>
<tr>
<td>2008</td>
<td>ROBERT M. GRAY</td>
<td>Lucent Technologies Prof. of Engineering, EE Dept Stanford Univ., Stanford, CA, USA</td>
<td>“For contributions to vector quantization and signal compression techniques.”</td>
</tr>
<tr>
<td>2007</td>
<td>ALAN V. OPPENHEIM</td>
<td>Ford Professor of Engineering, MIT, Department of EECS, Cambridge, MA, USA</td>
<td>“For visionary leadership and exceptional contributions to the field of digital signal processing.”</td>
</tr>
<tr>
<td>2006</td>
<td>THOMAS KAILATH</td>
<td>Hitachi America Prof. of</td>
<td>“For seminal contributions to the theory and applications of statistical signal processing.”</td>
</tr>
</tbody>
</table>
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Engineering, Emeritus, Dept of EE, Stanford University, Stanford, CA, USA

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

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

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

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

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

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

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

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

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

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

Salt Lake City, UT, USA

1997
BERNARD GOLD
MIT Lincoln Laboratory,
Lexington, MA, USA
"For pioneering research in digital signal
processing fundamentals, in speech signal
processing, and for their landmark signal
processing text."

AND
CHARLES M. RADER
MIT Lincoln Laboratory,
Lexington, MA, USA