IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL RECIPIENTS

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

“For groundbreaking contributions to compressed sensing.”

2020 RAMALINGAM CHELLAPPA

Distinguished University Professor, Electrical and Computer Engineering, University of California, Los Angeles, California, USA

“For contributions to image and video processing, especially applications to face recognition.”

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Computer Engineering,
University of Maryland,
College Park, Maryland, USA

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.”

2013 BISHNU S. ATAL
Affiliate Professor, Electrical
Engineering Department,
University of Washington,
Seattle, WA, USA
“For fundamental and pioneering
contributions to speech coding.”

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<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Title/Institution</th>
<th>Contribution</th>
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</thead>
<tbody>
<tr>
<td>2012</td>
<td>CLIFFORD CARTER (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>
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<tr>
<td>2011</td>
<td>INGRID DAUBECHIES 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>
<td></td>
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<tr>
<td>2010</td>
<td>RONALD SCHAFER HP Fellow, Hewlett Packard, Palo Alto, CA, USA</td>
<td>“For leadership and pioneering contributions to the field of digital signal processing.”</td>
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</tr>
<tr>
<td>2009</td>
<td>CHARLES SIDNEY BURRUS 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>
<td></td>
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<tr>
<td>2008</td>
<td>ROBERT M. GRAY Lucent Technologies Prof. of Engineering, EE Dept Stanford Univ., Stanford, CA, USA</td>
<td>“For contributions to vector quantization and signal compression techniques.”</td>
<td></td>
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<tr>
<td>2007</td>
<td>ALAN V. OPPENHEIM 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>
<td></td>
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<tr>
<td>2006</td>
<td>THOMAS KAILATH Hitachi America Prof. of Engineering, Emeritus, Dept of EE, Stanford University, Stanford, CA, USA</td>
<td>“For seminal contributions to the theory and applications of statistical signal processing.”</td>
<td></td>
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<tr>
<td>2005</td>
<td>FUMITADA ITAKURA Prof., Meijo University, Nagoya, Japan</td>
<td>&quot;For pioneering contributions to narrow-band speech coding.&quot;</td>
<td></td>
</tr>
</tbody>
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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 Salt Lake City, UT, USA
“For pioneering the field of digital audio processing"

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
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MIT Lincoln Laboratory,
Lexington, MA, USA