IEEE JACK S. KILBY SIGNAL PROCESSING MEDAL
RECIPIENTS

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.”

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

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
cohesion 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
Engineering, Emeritus, Dept
of EE, Stanford University,
Stanford, CA, USA
“For seminal contributions to the theory and
applications of statistical signal processing.”

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<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
<th>Institution</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>FUMITADA ITAKURA</td>
<td>Prof., Meijo University, Nagoya, Japan</td>
<td>&quot;For pioneering contributions to narrow-band speech coding.&quot;</td>
</tr>
<tr>
<td>2004</td>
<td>THOMAS W. PARKS</td>
<td>Prof., School of Electrical Eng, Cornell Univ., Ithaca, NY, USA</td>
<td>“For fundamental contributions to digital filter design and interpolation, especially the Parks-McClellan algorithm.”</td>
</tr>
<tr>
<td>AND</td>
<td>JAMES H. McCLELLAN</td>
<td>Prof., School of Electrical and Computer Engineering Georgia Institute of Tech. Atlanta, GA, USA</td>
<td></td>
</tr>
<tr>
<td>2003</td>
<td>HANS W. SCHUESSLER</td>
<td>Professor Emeritus Univ. of Erlangen-Nuernberg Erlangen, Germany</td>
<td>“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.”</td>
</tr>
<tr>
<td>2002</td>
<td>JAMES W. COOLEY</td>
<td>Consultant, South Kingstown, RI, USA</td>
<td>&quot;For pioneering the Fast Fourier Transform (FFT) algorithm.&quot;</td>
</tr>
<tr>
<td>2001</td>
<td>THOMAS S. HUANG</td>
<td>Faculty Member, Univ of Illinois Urbana-Champaign, IL, USA</td>
<td>&quot;For pioneering and sustained contributions to image sequence processing and its applications to digital TV, to pattern recognition, and to computer animation.&quot;</td>
</tr>
<tr>
<td>AND</td>
<td>ARUN N. NETRAVALI</td>
<td>President, Bell Labs, NJ, USA</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>JAMES F. KAISER</td>
<td>Duke University Durham, NC, USA</td>
<td>“For his pioneering contributions in digital filter design and implementations, and his role in the early development of the field of Digital Signal Processing.</td>
</tr>
<tr>
<td>1999</td>
<td>LAWRENCE R. RABINDER</td>
<td>AT&amp;T Labs Florham Park, NJ, USA</td>
<td>&quot;For far-reaching impact on the fields of digital signal processing and automatic speech recognition, through leadership, research, and education.&quot;</td>
</tr>
<tr>
<td>1998</td>
<td>THOMAS G. STOCKHAM</td>
<td>University of Utah Salt Lake City, UT, USA</td>
<td>&quot;For pioneering the field of digital audio processing&quot;</td>
</tr>
</tbody>
</table>
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1997   BERNARD GOLD
MIT Lincoln Laboratory,
Lexington, MA, USA

AND   CHARLES M. RADER
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."