

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

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, Vinnings, 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."
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,	"For pioneering contributions to the theory and applications of wavelets and filter banks."

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Jr., Department of  
Mathematics and Program for  
Applied Mathematics,  
Princeton University,  
Princeton, NJ, USA

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|------|---|---|
| 2010 | RONALD SCHAFER<br>HP Fellow, Hewlett Packard,<br>Palo Alto, CA, USA   | "For leadership and pioneering contributions to the field of digital signal processing."                              |
| 2009 | CHARLES SIDNEY BURRUS<br>Dean (Emeritus), Rice<br>University College of Eng.,<br>Houston, TX, USA                             | "For contributions to Fast Fourier Transform algorithms, digital filter design, and signal processing education."     |
| 2008 | ROBERT M. GRAY<br>Lucent Technologies Prof. of<br>Engineering, EE Dept<br>Stanford Univ., Stanford, CA,<br>USA                | "For contributions to vector quantization and signal compression techniques."   |
| 2007 | ALAN V. OPPENHEIM<br>Ford Professor of<br>Engineering, MIT,<br>Department of EECS,<br>Cambridge, MA, USA                      | "For visionary leadership and exceptional contributions to the field of digital signal processing."                   |
| 2006 | THOMAS KAILATH<br>Hitachi America Prof. of<br>Engineering, Emeritus, Dept<br>of EE, Stanford University,<br>Stanford, CA, USA | "For seminal contributions to the theory and applications of statistical signal processing."                          |
| 2005 | FUMITADA ITAKURA<br>Prof., Meijo University,<br>Nagoya, Japan   | "For pioneering contributions to narrow-band speech coding."  |
| 2004 | THOMAS W. PARKS<br>Prof., School of Electrical<br>Eng, Cornell Univ., Ithaca,<br>NY, USA                                      | "For fundamental contributions to digital filter design and interpolation, especially the Parks-McClellan algorithm." |
| AND  | JAMES H. McCLELLAN<br>Prof., School of Electrical and<br>Computer Engineering<br>Georgia Institute of Tech.                   |   |

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Atlanta, GA, USA

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|------|--|---|
| 2003 | HANS W. SCHUESSLER<br>Professor Emeritus<br>Univ. of Erlangen-Nuernberg<br>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<br>Consultant, South Kingstown,<br>RI, USA                                   | "For pioneering the Fast Fourier Transform (FFT) algorithm."  |
| 2001 | THOMAS S. HUANG<br>Faculty Member, Univ of<br>Illinois<br>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<br>President, Bell Labs, NJ, USA   |   |
| 2000 | JAMES F. KAISER<br>Duke University<br>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<br>AT&T Labs<br>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<br>University of Utah<br>Salt Lake City, UT, USA                          | "For pioneering the field of digital audio processing"  |
| 1997 | BERNARD GOLD<br>MIT Lincoln Laboratory,<br>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<br>MIT Lincoln Laboratory,<br>Lexington, MA, USA                            |   |