

IEEE Signal Processing Society
Signal Processing Magazine Best Paper Award

The IEEE Signal Processing Magazine Best Paper Award honors the author(s) of a paper of exceptional merit and broad interest on a subject related to the Society's technical scope and appearing in the Society's magazine.

2023	Michael M. Bronstein, Joan Bruna, Yann LeCun, Arthur Szlam and Pierre Vandergheynst for "Geometric Deep Learning: Going beyond Euclidean", <i>IEEE Signal Processing Magazine</i> , July 2017.
2022	Geoffrey Hinton, Li Deng, Dong Yu, George E. Dahl, Abdel-rahman Mohamed, Navdeep Jaitly, Andrew Senior, Vincent Vanhoucke, Patrick Nguyen, Tara N. Sainath, and Brian Kingsbury for "Deep Neural Networks for Acoustic Modeling in Speech Recognition: The Shared Views of Four Research Groups", <i>IEEE Signal Processing Magazine</i> , vol. 29, no. 6, November 2012.
2021	René Vidal for the article "Subspace Clustering: Applications in Motion Segmentation and Face Clustering", <i>IEEE Signal Processing Magazine</i> , March 2011.
2020	Marco F. Duarte, Mark A. Davenport, Dharmpal Takhar, Jason N. Laska, Ting Sun, Kevin F. Kelly, and Richard G. Baraniuk for their article "Single-Pixel Imaging via Compressive Sampling: Building simpler, smaller, and less-expensive digital cameras", <i>IEEE Signal Processing Magazine</i> , March 2008.
2019	Emmanuel J. Candès and Michael B. Wakin for their article "An Introduction To Compressive Sampling: A sensing/sampling paradigm that goes against the common knowledge in data acquisition", <i>IEEE Signal Processing Magazine</i> , vol. 25, no. 2, March 2008.
2018	Andrzej Cichocki, Danilo P. Mandic, Anh Huy Phan, Cesar F. Caiafa, Guoxu Zhou, Qibin Zhao, and Lieven De Lathauwer for "Tensor Decompositions for Signal Processing Applications: From two-way to multiway component analysis", <i>IEEE Signal Processing Magazine</i> , vol. 32, no. 2, March 2015.
2017	Abdelhak M. Zoubir, Visa Koivunen, Yacine Chakhchoukh, and Michael Muma , for the paper entitled, Robust Estimation in Signal Processing: A tutorial-style treatment of fundamental concepts, <i>IEEE Signal Processing Magazine</i> , Volume: 29, No. 4, July 2012.
2016	David I Shuman, Sunil K. Narang, Pascal Frossard, Antonio Ortega and Pierre Vandergheynst , for the paper entitled, The Emerging Field of Signal Processing on Graphs [Extending high-dimensional data analysis to networks and other irregular domains], <i>IEEE Signal Processing Magazine</i> , Volume 30, No. 3, May 2013.
2015	Zhi-Quan Luo, Wing-Kin Ma, Anthony Man-Cho So, Yinyu Ye and Shuzhong Zhang , for the paper entitled, Semidefinite Relaxation of Quadratic Optimization Problems, <i>IEEE Signal Processing Magazine</i> , Volume 27, Number 3, May 2010.
2014	Sergios Theodoridis, Konstantinos Slavakis and Isao Yamada , for the paper entitled, Adaptive Learning in a World of Projections: A Unifying Framework for Linear and Nonlinear Classification and Regression Tasks, <i>IEEE Signal Processing Magazine</i> , Volume 28, Number 1, January 2011.
2013	Zhou Wang and A.C. Bovik , for the paper entitled, Mean Squared Error: Love it or Leave it? A New Look at Signal Fidelity Measures, <i>IEEE Signal Processing Magazine</i> , Volume 26, Number 1, January 2009.
2012	David Gesbert, Marios Kountouris, Robert W. Heath, Jr., Chan-Byoung Chae and Thomas Sälzer , for the paper entitled, Shifting the MIMO

	Paradigm <i>IEEE Signal Processing Magazine</i> , Volume 24, Number 5, September 2007.
2011	Jacob Mattingley and Stephen Boyd, for the paper entitled, Real-Time Convex Optimization in Signal Processing, <i>IEEE Signal Processing Magazine</i> , Volume 27, Number 3, May 2010.
2010	Qing Zhao and Brian M. Sadler, for the paper entitled, A Survey of Dynamic Spectrum Access, <i>IEEE Signal Processing Magazine</i> , Volume 24, Number 3, May 2007.
2009	Neal Patwari, Joshua N. Ash, Spyros Kyperountas, Alfred O. Hero, III, Randolph L. Moses and Neiyer S. Correal, for the paper entitled, Locating the Nodes: Cooperative Localization in Wireless Sensor Networks, <i>IEEE Signal Processing Magazine</i> , Volume 22, Number 4, July 2005.
2008	Ralf Koetter, Andrew C. Singer and Michael Tüchler, for the paper entitled, Turbo Equalization, <i>IEEE Signal Processing Magazine</i> , Volume 21, Number 1, January 2004.
2007	Petar M. Djurić, Jayesh H. Kotecha, Jianqui Zhang, Yufei Huang, Tadesse Ghirmai, Mónica F. Bugallo and Joaquin Miguez, for the paper entitled, Particle Filtering, <i>IEEE Signal Processing Magazine</i> , Volume 20, Number 5, September 2003.
2006	Zixiang Xiong, Angelos D. Liveris and Samuel Cheng, for the paper entitled, Distributed Source Coding for Sensor Networks, <i>IEEE Signal Processing Magazine</i> , Volume 21, Number 5, September 2004.
2005	Olivier Cappé, Eric Moulines, Jean-Christophe Pesquet, Athina Petropulu and Xueshi Yang, for the paper entitled, Long-Range Dependence and Heavy-Tail Modeling for Teletraffic Data, <i>IEEE Signal Processing Magazine</i> , Volume 19, Number 3, May 2002.
2004	Aleksandar Dogandžić and Arye Nehorai, for the paper entitled, Generalized Multivariate Analysis of Variance: A Unified Framework for Signal Processing in Correlated Noise, <i>IEEE Signal Processing Magazine</i> , Volume 20, Number 5, September 2003.
2003	Zhengdao Wang and Georgios B. Giannakis, for the paper entitled, Wireless Multicarrier Communications, <i>IEEE Signal Processing Magazine</i> , Volume 17, Number 3, May 2000.
2002	Vivek K. Goyal, for the paper entitled, Multiple Description Coding: Compression Meets the Network, <i>IEEE Signal Processing Magazine</i> , Volume 18, Number 5, September 2001.
2001	Christoph Stiller and Janusz Konrad, for the paper entitled, Estimating Motion in Image Sequences, <i>IEEE Signal Processing Magazine</i> , Volume 16, Number 4, July 1999.
2000	Michael Unser, for the paper entitled, Splines: A Perfect Fit for Signal and Image Processing, <i>IEEE Signal Processing Magazine</i> , Volume 16, Number 6, November 1999.
1999	Antonio Ortega and Kennan Ramchandran, for the paper entitled, Rate-Distortion Methods for Image and Video Compression, <i>IEEE Signal Processing Magazine</i> , Volume 15, Number 6, November 1998.
1998	No Recipient.
1997	John R. Deller, Jr., for the paper entitled, Tom, Dick, and Mary Discover the DFT, <i>IEEE Signal Processing Magazine</i> , Volume 11, Number 2, April 1994.
1996	Nelson Morgan and Hervé Boudlard, for the paper entitled, Continuous Speech Recognition--An Introduction to the Hybrid HMM/Connectionist

	Approach, <i>IEEE Signal Processing Magazine</i> , Volume 12, Number 3, May 1995.
1995	No Recipient.
1994	Lawrence Rabiner and Biing-Hwang Juang, for the paper entitled, An Introduction to Hidden Markov Models, <i>IEEE ASSP Magazine</i> , Volume 3, Number 1, January 1986.
1993	Richard P. Lippmann, for the paper entitled, An Introduction to Computing with Neural Nets, <i>IEEE ASSP Magazine</i> , Volume 4, Number 2, April 1987.