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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.

2018	<b>Andrzej Cichocki, Danilo P. Mandic, Anh Huy Phan, Cesar F. Caiafa, Guoxu Zhou, Qibin Zhao, and Lieven De Lathauwer</b> 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	<b>Abdelhak M. Zoubir, Visa Koivunen, Yacine Chakhchoukh, and Michael Muma</b> , 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	<b>David I Shuman, Sunil K. Narang, Pascal Frossard, Antonio Ortega and Pierre Vandergheynst</b> , 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	<b>Zhi-Quan Luo, Wing-Kin Ma, Anthony Man-Cho So, Yinyu Ye and Shuzhong Zhang</b> , for the paper entitled, Semidefinite Relaxation of Quadratic Optimization Problems, <i>IEEE Signal Processing Magazine</i> , Volume 27, Number 3, May 2010.
2014	<b>Sergios Theodoridis, Konstantinos Slavakis and Isao Yamada</b> , 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	<b>Zhou Wang and A.C. Bovik</b> , 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	<b>David Gesbert, Marios Kountouris, Robert W. Heath, Jr., Chan-Byoung Chae and Thomas Sälzer</b> , for the paper entitled, Shifting the MIMO Paradigm <i>IEEE Signal Processing Magazine</i> , Volume 24, Number 5, September 2007.
2011	<b>Jacob Mattingley and Stephen Boyd</b> , for the paper entitled, Real-Time Convex Optimization in Signal Processing, <i>IEEE Signal Processing Magazine</i> , Volume 27, Number 3, May 2010.
2010	<b>Qing Zhao and Brian M. Sadler</b> , for the paper entitled, A Survey of Dynamic Spectrum Access, <i>IEEE Signal Processing Magazine</i> , Volume 24, Number 3, May 2007.
2009	<b>Neal Patwari, Joshua N. Ash, Spyros Kyperountas, Alfred O. Hero, III, Randolph L. Moses and Neiyer S. Correal</b> , 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	<b>Ralf Koetter, Andrew C. Singer and Michael Tüchler</b> , for the paper entitled, Turbo Equalization, <i>IEEE Signal Processing Magazine</i> , Volume 21, Number 1, January 2004.
2007	<b>Petar M. Djurić, Jayesh H. Kotecha, Jianqui Zhang, Yufei Huang, Tadesse Ghirmai, Mónica F. Bugallo and Joaquin Miguez</b> , 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 Bouchard, 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.