

IEEE Signal Processing Society
Young Author Best Paper Award
(formerly known as the Paper Award)

2017	<p>Jie Xu and Liang Liu, for the paper co-authored with Rui Zhang entitled, Multiuser MISO Beamforming for Simultaneous Wireless Information and Power Transfer, <i>IEEE Transactions on Signal Processing</i>, Volume 62, No. 18, September 2014.</p> <p>Konstantin Dragomiretskiy, for the paper co-authored with Dominique Zosso entitled, Variational Mode Decomposition, <i>IEEE Transactions on Signal Processing</i>, Volume 62, No. 3, February 2014.</p> <p>Wei Shi and Kun Yuan, for the paper co-authored with Qing Ling, Gang Wu, and Wotao Yin entitled, On the Linear Convergence of the ADMM in Decentralized Consensus Optimization, <i>IEEE Transactions on Signal Processing</i>, Volume 62, No. 7, April 2014.</p> <p>Morteza Mardani, for the paper co-authored with Gonzalo Mateos and Georgios B. Giannakis entitled, Subspace Learning and Imputation for Streaming Big Data Matrices and Tensors, <i>IEEE Transactions on Signal Processing</i>, Volume 63, No. 10, May 2015.</p> <p>Mojtaba Soltanalian, for the paper co-authored with Petre Stoica entitled, Designing Unimodular Codes Via Quadratic Optimization, <i>IEEE Transactions on Signal Processing</i>, Volume 62, No. 5, March 2014.</p> <p>Roe Enbar, for the paper co-authored with Eran Eiding and Tal Hassnerfor entitled, Age and Gender Estimation of Unfiltered Faces, <i>IEEE Transactions on Information Forensics and Security</i>, Volume 9, No. 12, December 2014.</p>
2016	<p>Yuanming Shi and Brendan O'Donoghue, for the paper co-authored with Jun Zhang and Khaled B. Letaief entitled, Large-Scale Convex Optimization for Dense Wireless Cooperative Networks, <i>IEEE Transactions on Signal Processing</i>, Volume 63, No. 18, September 2015.</p> <p>Ahmed Alkhateeb and Omar El Ayach for the paper co-authored with Geert Leus and Robert W. Heath, Jr. entitled, Channel Estimation and Hybrid Precoding for Millimeter Wave Cellular Systems, <i>IEEE Journal of Selected Topics in Signal Processing</i>, Volume 8, No. 5, October 2014.</p> <p>Jack Ho, for the paper co-authored with Wee Peng Tay, Tony Q. S. Quek and Edwin K. P. Chong entitled, Robust Decentralized Detection and Social Learning in Tandem Networks, <i>IEEE Transactions on Signal Processing</i>, Volume 63, No. 19, October 2015.</p> <p>Saiprasad Ravishankar, for the paper co-authored with Yoram Bresler entitled, Learning Sparsifying Transforms, <i>IEEE Transactions on Signal Processing</i>, Volume 61, No. 5, March 2013.</p>

2015	<p>Jingning Han, Ankur Saxena, Vinay Melkote, for the paper co-authored with Kenneth Rose entitled, Jointly Optimized Spatial Prediction and Block Transform for Video and Image Coding, <i>IEEE Transactions on Image Processing</i>, Volume 21, Number 4, April 2012.</p> <p>Yuhua Xu, for the paper co-authored with Jinlong Wang, Qihui Wu, Alagan Anpalagan and Yu-Dong Yao entitled, Opportunistic Spectrum Access in Cognitive Radio Networks: Global Optimization Using Local Interaction Games, <i>IEEE Journal of Selected Topics in Signal Processing</i>, Volume 6, Number 2, April 2012.</p> <p>Dimitris S. Papailiopoulos, for the paper co-authored with Alexandros G. Dimakis entitled, Interference Alignment as a Rank Constrained Rank Minimization, <i>IEEE Transactions on Signal Processing</i>, Volume 60, Number 8, August 2012.</p> <p>Peiran Song, for the paper co-authored with Gesualdo Scutari, Francisco Facchinei, Daniel P. Palomar and Jong-Shi Pang entitled, Decomposition by Partial Linearization: Parallel Optimization of Multi-Agent Systems, <i>IEEE Transactions on Signal Processing</i>, Volume 62, Number 3, February 2014.</p> <p>João F. C. Mota, for the paper co-authored with João M. F. Xavier, Pedro M. Q. Aguiar, and Markus Püschel entitled, Distributed Basis Pursuit, <i>IEEE Transactions on Signal Processing</i>, Volume 60, Number 4, April 2012.</p>
2014	<p>Tomáš Filler and Jan Judas, for the paper co-authored with Jessica Fridrich entitled, Minimizing Additive Distortion in Steganography Using Syndrome-Trellis Codes, <i>IEEE Transactions on Information Forensics and Security</i>, vol. 6, Number 3, September 2011.</p> <p>Tomáš Filler and Jan Judas, for the paper co-authored with Jessica Fridrich entitled, Minimizing Additive Distortion in Steganography Using Syndrome-Trellis Codes, <i>IEEE Transactions on Information Forensics and Security</i>, vol. 6, Number 3, September 2011.</p> <p>Meisam Razaviyayn, for the paper co-authored with Gennady Lyubeznik and Zhi-Quan Luo entitled, On the Degrees of Freedom Achievable Through Interference Alignment in a MIMO Interference Channel, <i>IEEE Transactions on Signal Processing</i>, vol. 60, Number 2, February 2012.</p> <p>Tiangao Gou and Chenwei Wang, for the paper co-authored with Syed A. Jafar entitled, Aiming Perfectly in the Dark-Blind Interference Alignment Through Staggered Antenna Switching, <i>IEEE Transactions on Signal Processing</i>, Volume 59, Number 6, June 2011.</p> <p>Jort F. Gemmeke and Antti Hurmalainen, for the paper co-authored with Tuomas Virtanen entitled, Exemplar-Based Sparse Representations for Noise Robust Automatic Speech Recognition, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, vol. 19, Number 7, September 2011.</p> <p>Daniele Giacobello, for the paper co-authored with Mads Græsbøll Christensen, Manohar N. Murthi, Søren Holdt Jensen, and Marc Moonen entitled, Sparse Linear Prediction and Its Applications to Speech Processing, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, vol. 20, Number 5, July 2012.</p>

2013	<p>Kalpana Seshadrinathan, for the paper co-authored with Alan Bovik entitled, Motion Tuned Spatio-Temporal Quality Assessment of Natural Videos, <i>IEEE Transactions on Image Processing</i>, Volume 19, Number 2, February 2010.</p> <p>Yuejie Chi, for the paper co-authored with Louis Scharf, Ali Pezeshki and A. Robert Calderbank entitled, Sensitivity to Basis Mismatch in Compressed Sensing, <i>IEEE Transactions on Signal Processing</i>, Volume 59, Number 5, May 2011.</p> <p>Lin Li, for the paper co-authored with Anna Scaglione and Jonathan Manton entitled, Distributed Principal Subspace Estimation in Wireless Sensor Networks, <i>IEEE Journal of Selected Topics in Signal Processing</i>, Volume 5, Number 4, August 2011.</p>
2012	<p>Ngoc Q. K. Duong, for the paper co-authored with Emmanuel Vincent and Rémi Gribonval entitled, Under-Determined Reverberant Audio Source Separation Using a Full-Rank Spatial Covariance Model, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, Volume 18, Number 7, September 2010.</p> <p>David Ramirez, for the paper co-authored with Javier Via, Ignacio Santamaría and Louis L. Scharf entitled, Detection of Spatially Correlated Gaussian Time Series, <i>IEEE Transactions on Signal Processing</i>, Volume 58, Number 10, October 2010.</p> <p>Deanna Needell, for the paper co-authored with Roman Vershynin entitled, Signal Recovery from Incomplete and Inaccurate Measurements Via Regularized Orthogonal Matching Pursuit <i>IEEE Journal of Selected Topics in Signal Processing</i>, Volume 4, Number 2, April 2010 .</p> <p>Najim Dehak, for the paper co-authored with Patrick J. Kenny, Réda Dehak, Pierre Dumouchel, and Pierre Ouellet entitled, Front-End Factor Analysis for Speaker Verification <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, Volume 19, Number 4, May 2011.</p>
2011	<p>Yi-Hsuan Yang, Yu-Ching Lin, and Ya-Fan Su, for the paper co-authored with Homer H. Chen entitled, A Regression Approach to Music Emotion Recognition, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, Volume 16, Number 2, February 2008.</p> <p>Raj Rao Nadakuditi, for the paper co-authored with Alan Edelman entitled, Sample Eigenvalue Based Detection of High-Dimensional Signals in White Noise Using Relatively Few Samples, <i>IEEE Transactions on Signal Processing</i>, Volume 56, Number 7, July 2008.</p> <p>Sheng Yi, for the paper co-authored with Demetrio Labate, Glenn R. Easley, and Hamid Krim entitled, A Shearlet Approach to Edge Analysis and Detection, <i>IEEE Transactions on Image Processing</i>, Volume 18, Number 5, May 2009.</p>

2010	<p>Kostadin Dabov, for the paper co-authored with Alessandro Foi, Vladimir Katkovnik and Karen Egiazarian entitled, Image Denoising by Sparse 3-D Transform-Domain Collaborative Filtering, <i>IEEE Transactions on Image Processing</i>, Volume 16, Number 8, August 2007.</p> <p>Karthik Nandakumar, for the paper co-authored with Anil K. Jain and Sharath Pankanti entitled, Fingerprint-Based Fuzzy Vault: Implementation and Performance, <i>IEEE Transactions on Information Forensics and Security</i>, Volume 2, Number 4, December 2007.</p> <p>Geoffrey San Antonio, for the paper co-authored with Daniel R. Fuhrmann and Frank C. Robey entitled, MIMO Radar Ambiguity Functions, <i>IEEE Journal of Selected Topics in Signal Processing</i>, Volume 1, Number 1, June 2007.</p> <p>Liang Sun and Matthew R. McKay, for the paper co-authored with Shi Jin entitled, Analytical Performance of MIMO Multichannel Beamforming in the Presence of Unequal Power Cochannel Interference and Noise, <i>IEEE Transactions on Signal Processing</i>, Volume 57, Number 7, July 2009.</p> <p>Duc Son Pham, for the paper co-authored with Abdelhak M. Zoubir entitled, Analysis of Multicomponent Polynomial Phase Signals, <i>IEEE Transactions on Signal Processing</i>, Volume 55, Number 1, January 2007.</p> <p>Zhen-Hua Ling, for the paper co-authored with Korin Richmond, Junichi Yamagishi, and Ren-Hua Wang entitled, Integrating Articulatory Features Into HMM-Based Parametric Speech Synthesis, <i>IEEE Transactions on Audio, Speech, And Language Processing</i>, Volume 17, Number 6, August 2009.</p>
2009	<p>Florian Luisier, for the paper co-authored with Thierry Blu and Michael Unser entitled, A New SURE Approach to Image Denoising: Interscale Orthonormal Wavelet Thresholding, <i>IEEE Transactions on Image Processing</i>, Volume 16, Number 3, March 2007.</p> <p>Tomoki Toda, for the paper co-authored with Alan W. Black and Keiichi Tokuda entitled, Voice Conversion Based on Maximum-Likelihood Estimation of Spectral Parameter Trajectory, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, Volume 15, Number 8, November 2007.</p>
2008	<p>Hirokazu Kameoka, for the paper co-authored with Takuya Nishimoto and Shigeki Sagayama entitled, A Multipitch Analyzer Based on Harmonic Temporal Structured Clustering, <i>IEEE Transactions on Audio, Speech, and Language Processing</i>, Volume 15, Number 3, March 2007.</p> <p>Minh N. Do, for the paper co-authored with Martin Vetterli entitled, The Contourlet Transform: An Efficient Directional Multiresolution Image Representation, <i>IEEE Transactions on Image Processing</i>, Volume 14, Number 12, December 2005.</p> <p>H. Vicky Zhao, for the paper co-authored with K. J. Ray Liu entitled, Behavior Forensics for Scalable Multiuser Collusion: Fairness Versus Effectiveness, <i>IEEE Transactions on Information Forensics and Security</i>, Volume 1, Number 3, September 2006.</p> <p>Animashree Anandkumar, for the paper co-authored with Lang Tong entitled, Type-Based Random Access for Distributed Detection Over Multiaccess Fading Channels, <i>IEEE Transactions on Signal Processing</i>, Volume 55, Number 10, October 2007.</p>

2007	<p>Ana Petrovic and Oscar Divorra Escoda, for the paper co-authored with Pierre Vandergheynst entitled, Multiresolution Segmentation of Natural Images: From Linear to Nonlinear Scale-Space Representations, <i>IEEE Transactions on Image Processing</i>, Volume 13, Number 8, August 2004.</p> <p>XuanLong Nguyen, for the paper co-authored with Martin J. Wainwright and Michael I. Jordan entitled, Nonparametric Decentralized Detection Using Kernel Methods, <i>IEEE Transactions on Signal Processing</i>, Volume 53, Number 11, November 2005.</p> <p>Jing Liu, for the paper co-authored with Jian-Kang Zhang and Kon Max Wong entitled, On the Design of Minimum BER Linear Space-Time Block Codes for MIMO Systems Equipped with MMSE Receivers, <i>IEEE Transactions on Signal Processing</i>, Volume 54, Number 8, August 2006.</p> <p>Ami Wiesel, for the paper co-authored with Yonina C. Eldar and Shlomo Shamai (Shitz) entitled, Linear Precoding via Conic Optimization for Fixed MIMO Receivers, <i>IEEE Transactions on Signal Processing</i>, Volume 54, Number 1, January 2006.</p> <p>Qiyue Zou, for the paper co-authored with Zhiping Lin and Raimund J. Ober entitled, The Cramer-Rao Lower Bound for Bilinear Systems, <i>IEEE Transactions on Signal Processing</i>, Volume 54, Number 5, May 2006.</p>
2006	<p>Herbert Buchner and Robert Aichner, for the paper co-authored with Walter Kellermann entitled, A Generalization of Blind Source Separation Algorithms for Convulsive Mixtures Based on Second-Order Statistics, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 13, Number 1, January 2005.</p> <p>Jean-François Chamberland, for the paper co-authored with Venugopal V. Veeravalli entitled, Decentralized Detection in Sensor Networks, <i>IEEE Transactions on Signal Processing</i>, Volume 51, Number 2, February 2003.</p> <p>Joakim Jaldén, for the paper co-authored with Björn Ottersten entitled, On the Complexity of Sphere Decoding in Digital Communications, <i>IEEE Transactions on Signal Processing</i>, Volume 53, Number 4, April 2005.</p> <p>Michael L. Seltzer, for the paper co-authored with Bhiksha Raj and Richard M. Stern entitled, Likelihood-Maximizing Beamforming for Robust HandsFree Speech Recognition, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 12, Number 5, September 2004.</p>
2005	<p>Anssi P. Klapuri, for the paper entitled, Multiple Fundamental Frequency Estimation Based on Harmonicity and Spectral Smoothness, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 11, Number 6, November 2003.</p> <p>Marius Pesavento, for the paper co-authored with Alex B. Gershman and Kon Max Wong entitled, Direction Finding in Partly Calibrated Sensor Arrays Composed of Multiple Subarrays, <i>IEEE Transactions on Signal Processing</i>, Volume 50, Number 9, September 2002.</p> <p>Tobias Dahl, for the paper co-authored with Nils Christophersen and David Gesbert entitled, Blind MIMO Eigenmode Transmission Based on the Algebraic Power Method, <i>IEEE Transactions on Signal Processing</i>, Volume 52, Number 9, September 2004.</p> <p>Waleed M. Younis, for the paper co-authored with Ali H. Sayed and Naofal Al-Dhahir entitled, Efficient Adaptive Receivers for Joint Equalization and Interference Cancellation in Multiuser Space-Time Block-Coded Systems, <i>IEEE Transactions on Signal Processing</i>, Volume 51, Number 11, November 2003.</p>
2004	<p>Daniel Pérez Palomar, for the paper co-authored with John M. Cioffi and Miguel Angel Lagunas entitled, Joint Tx-Rx Beamforming Design for Multicarrier MIMO Channels: A Unified Framework for Convex Optimization, <i>IEEE Transactions on Signal Processing</i>, Volume 51, Number 9, September 2003.</p>

	<p>George Tzanetakis, for the paper co-authored with Perry Cook entitled, Musical Genre Classification of Audio Signals, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 10, Number 5, July 2002.</p>
2003	<p>Deniz Erdogmus, for the paper co-authored with Jose C. Principe entitled, An Error-Entropy Minimization Algorithm for Supervised Training of Nonlinear Adaptive Systems, <i>IEEE Transactions on Signal Processing</i>, Volume 50, Number 7, July 2002.</p> <p>Aleksandar Dogandžić, for the paper co-authored with Arye Nehorai entitled, Space-Time Fading Channel Estimation and Symbol Detection in Unknown Spatially Correlated Noise, <i>IEEE Transactions on Signal Processing</i>, Volume 50, Number 3, March 2002.</p> <p>Constantinos B. Papadias, for the paper entitled, Globally Convergent Blind Source Separation Based on a Multiuser Kurtosis Maximization Criterion, <i>IEEE Transactions on Signal Processing</i>, Volume 48, Number 12, December 2000.</p> <p>Ramon F. Brcich, for the paper co-authored with Abdelhak M. Zoubir and Per Pelin entitled, Detection of Sources Using Bootstrap Techniques, <i>IEEE Transactions on Signal Processing</i>, Volume 50, Number 2, February 2002.</p>
2002	<p>Yiteng Huang, for the paper co-authored with Jacob Benesty, Gary W. Elko and Russell M. Mersereau entitled, Real-Time Passive Source Localization: A Practical Linear-Correction Least-Squares Approach, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 9, Number 8, November 2001.</p> <p>Juan Liu, for the paper co-authored with Pierre Moulin entitled, Information-Theoretic Analysis of Interscale and Intrascale Dependencies Between Image Wavelet Coefficients, <i>IEEE Transactions on Image Processing</i>, Volume 10, Number 11, November 2001.</p> <p>Shawn Kraut, for the paper co-authored with Louis L. Scharf and L. Todd McWhorter entitled, Adaptive Subspace Detectors, <i>IEEE Transactions on Signal Processing</i>, Volume 49, Number 1, January 2001.</p> <p>Geert Leus and Piet Vandaele, for the paper co-authored with Marc Moonen entitled, Deterministic Blind Modulation-Induced Source Separation for Digital Wireless Communications, <i>IEEE Transactions on Signal Processing</i>, Volume 49, Number 1, January 2001.</p>
2001	<p>S. Basu, for the paper co-authored with Yoram Bresler entitled, $O(N^2 \log_2 mN)$ Filtered Backprojection Reconstruction Algorithm for Tomography, <i>IEEE Transactions on Image Processing</i>, Volume 9, Number 10, October 2000.</p> <p>Helmut Bölcskei, for the paper co-authored Franz Hlawatsch and Hans G. Feichtinger entitled, Frame-Theoretic Analysis of Oversampled Filter Banks, <i>IEEE Transactions on Signal Processing</i>, Volume 46, Number 12, December 1998.</p> <p>Aleksandra Mojsilovic, for the paper co-authored with Jelena Kovacevic, Jianying Hu, Robert J. Safranek and S. Kicha Ganapathy entitled, Matching and Retrieval Based on the Vocabulary and Grammar of Color Patterns, <i>IEEE Transactions on Image Processing</i>, Volume 9, Number 1, January 2000.</p>

2000	<p>Qing Zhao, for the paper co-authored with Lang Tong entitled, Adaptive Blind Channel Estimation by Least Squares Smoothing, <i>IEEE Transactions on Signal Processing</i>, Volume 47, Number 11, November 1999.</p> <p>David Astély, for the paper co-authored with A. Lee Swindlehurst and Bjorn Ottersten entitled, Spatial Signature Estimation for Uniform Linear Arrays with Unknown Receiver Gains and Phases, <i>IEEE Transactions on Signal Processing</i>, Volume 47, Number 8, August 1999.</p> <p>Matthew Crouse and Robert D. Nowak, for the paper co-authored with Richard G. Baraniuk entitled, Wavelet-Based Statistical Signal Processing Using Hidden Markov Models, <i>IEEE Transactions on Signal Processing</i>, Volume 46, Number 4, April 1998.</p> <p>Vassilis D. Diakouloukas, for the paper co-authored with Vassilios V. Digalakis entitled, Maximum-Likelihood Stochastic-Transformation Adaptation of Hidden Markov Models, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 7, Number 2, March 1999.</p>
1999	<p>Geoffrey M. Davis, for the paper entitled, A Wavelet-Based Analysis of Fractal Image Compression, <i>IEEE Transactions on Image Processing</i>, Volume 7, Number 2, February 1998.</p> <p>Christ D. Richmond, for the paper entitled, Derived PDF of Maximum Likelihood Signal Estimator Which Employs an Estimated Noise Covariance, <i>IEEE Transactions on Signal Processing</i>, Volume 44, Number 2, February 1996.</p> <p>Lutz Welling, for the paper co-authored with Hermann Ney entitled, Formant Estimation for Speech Recognition, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 6, Number 1, January 1998.</p> <p>Li Lee, for the paper co-authored with Richard Rose entitled, A Frequency warping Approach to Speaker Normalization, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 6, Number 1, January 1998.</p>
1998	<p>P. Charbonnier, for the paper co-authored with L. Blanc-Féraud, G. Aubert and M. Barlaud entitled, Deterministic Edge-Preserving Regularization in Computed Imaging, <i>IEEE Transactions on Image Processing</i>, Volume 6, Number 2, February 1997.</p> <p>Tsung-Nan Lin, for the paper co-authored with C. Lee Giles, Bill G. Horne, and Sun-Yuan Kung entitled, A Delay Damage Model Selection Algorithm for NARX Neural Networks, <i>IEEE Transactions on Signal Processing</i>, Volume 45, Number 11, November 1997.</p> <p>Michail K. Tsatsanis, for the paper co-authored with Georgios B. Giannakis entitled, Principal Component Filter Banks for Optimal Multiresolution Analysis, <i>IEEE Transactions on Signal Processing</i>, Volume 43, Number 8, August 1995.</p> <p>Michail K. Tsatsanis, for the paper co-authored with Georgios B. Giannakis entitled, Principal Component Filter Banks for Optimal Multiresolution Analysis, <i>IEEE Transactions on Signal Processing</i>, Volume 43, Number 8, August 1995.</p>
1997	<p>Avideh Zakhor, for the paper co-authored with Søren Hein entitled, Reconstruction of Oversampled Band-Limited Signals from Sigma-Delta Encoded Binary Sequences, <i>IEEE Transactions on Signal Processing</i>, Volume 42, Number 4, April 1994.</p> <p>Mark J. F. Gales, for the paper co-authored with Steve Young entitled, Robust Continuous Speech Recognition Using Parallel Model Combination, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 4, Number 5, September 1996.</p> <p>Alle-Jan van der Veen, for the paper co-authored with Arogyaswami Paulraj entitled, An Analytical Constant Modulus Algorithm, <i>IEEE Transactions on Signal Processing</i>, Volume 44, Number 5, May 1996.</p>

1996	<p>Soren Hein, for the paper co-authored with Avideh Zakhor entitled, Reconstruction of Oversampled Band-Limited Signals from Sigma-Delta Encoded Binary Sequences, <i>IEEE Transactions on Signal Processing</i>, Volume 42, Number 4, April 1994.</p> <p>Thomas S. Denny, Jr., for the paper co-authored with Jerry L. Prince entitled, Optimal Brightness Functions for Optical Flow Estimation of Deformable Motion, <i>IEEE Transactions on Image Processing</i>, Volume 3, Number 2, March 1994.</p> <p>Yves Normandin and Régis Cardin, for the paper co-authored with Renato De Mori entitled, High Performance Connected Digit Recognition Using Maximum Mutual Information Estimation, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 2, Number 2, April 1994.</p> <p>Guanghan Xu, for the paper co-authored with Thomas Kailath entitled, Fast Subspace Decomposition, <i>IEEE Transactions on Signal Processing</i>, Volume 42, Number 3, March 1994.</p>
1995	<p>Oliver Cappe, for the paper entitled, Elimination of the Musical Noise Phenomenon with the Ephraim and Malah Noise Suppressor, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 2, Number 2, April 1994.</p> <p>Jerome N. Shapiro, for the paper entitled, Embedded Image Coding Using Zerotrees of Wavelet Coefficients, <i>IEEE Transactions on Signal Processing</i>, Volume 41, Number 12, December 1993.</p>
1994	<p>Kambiz Nayebi, for the paper co-authored with Thomas P. Barnwell, III and Mark J. T. Smith entitled, Time-Domain Filter Bank Analysis: A New Design Theory, <i>IEEE Transactions on Signal Processing</i>, Volume 40, Number 6, June 1992.</p> <p>Roberto H. Bamberger, for the paper co-authored with Mark J. T. Smith entitled, A Filter Bank for the Directional Decomposition of Images: Theory and Design, <i>IEEE Transactions on Signal Processing</i>, Volume 40, Number 4, April 1992.</p> <p>Pao-Chung Chang, for the paper co-authored with Biing-Hwang Juang entitled, Discriminative Training of Dynamic Programming Based Speech Recognizers, <i>IEEE Transactions on Speech and Audio Processing</i>, Volume 1, Number 2, April 1993.</p> <p>A.-J. van der Veen, for the paper co-authored with Ed F. Deprettere entitled, Parallel VLSI Matrix Pencil Algorithm for High Resolution Direction Finding, <i>IEEE Transactions on Signal Processing</i>, Volume 39, Number 2, February 1991.</p>
1993	<p>Dirk T. M. Slock, for the paper co-authored with Thomas Kailath entitled, Numerically Stable Fast Transversal Filters for Recursive Least Squares Adaptive Filtering, <i>IEEE Transactions on Signal Processing</i>, Volume 39, Number 1, January 1991.</p> <p>Patrick L. Combettes, for the paper co-authored with H. Joel Trussell entitled, The Use of Noise Properties in Set Theoretic Estimation, <i>IEEE Transactions on Signal Processing</i>, Volume 39, Number 7, July 1991.</p> <p>X. D. Huang, for the paper entitled, Phoneme Classification Using Semicontinuous Hidden Markov Models, <i>IEEE Transactions on Signal Processing</i>, Volume 40, Number 5, May 1992.</p> <p>Bjorn Ottersten and Mats Viberg, for the paper entitled, Sensor Array Processing Based on Subspace Fitting, <i>IEEE Transactions on Signal Processing</i>, Volume 39, Number 5, May 1991.</p>

1992	<p>Truong Q. Nguyen, for the paper entitled, Structures for M-Channel Perfect-Reconstruction FIR QMF Banks Which Yield Linear-Phase Analysis Filters, <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i>, Volume 38, Number 3, March 1990.</p> <p>Philip A. Chou and Tom Lookabaugh, for the paper co-authored with Robert M. Gray entitled, Entropy-Constrained Vector Quantization, <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i>, Volume 37, Number 1, January 1989.</p> <p>Georgios B. Giannakis, for the paper co-authored with Jerry M. Mendel entitled, Identification of Nonminimum Phase Systems Using Higher Order Statistics, <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i>, Volume 37, Number 3, March 1989.</p>
1991	<p>William H. Equitz, for the paper entitled, A New Vector Quantization Clustering Algorithm, <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i>, Volume 37, Number 10, October 1989.</p> <p>Michael Zoltowski and Demosthenis Stavrinos, for the paper entitled, A Sensor Array Signal Processing Via a Procrustes Rotations Based Eigenanalysis of the ESPRIT Data Pencil, <i>IEEE Transactions on Acoustics, Speech and Signal Processing</i>, Volume 37, Number 6, June 1989.</p> <p>K. K. Parhi, for the paper co-authored with David G. Messerschmitt entitled, Pipeline Interleaving and Parallelism in Recursive Digital Filters-Part I: Pipelining Using Scattered Look-Ahead and Decomposition, and Pipeline Interleaving and Parallelism in Recursive Digital Filters-Part II: Pipelined Incremental Block Filtering, <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i>, Volume 37, Number 7, July 1989.</p>
1990	<p>J. Krolik.</p> <p>K. F. Lee.</p>
1989	<p>Alle-Jan van der Veen, for the paper co-authored with Ed F. Deprettere entitled, Parallel VLSI Matrix Pencil Algorithm for High Resolution Direction Finding, <i>IEEE Transactions on Signal Processing</i>, Volume 39, Number 2, February 1991.</p> <p>E. A. Lee.</p>
1988	<p>T. H.-Y. Meng.</p> <p>P. Maragos.</p> <p>H. Wang.</p> <p>M. J. T. Smith.</p>
1987	<p>J. J. Clark and M. R. Palmer.</p> <p>F. U. Dowla and S.H. Nawab.</p> <p>M. R. Raghuveer.</p>

1986	E. J. Coyle and J. P. Fitch. D. J. Rossi. A. O. Steinhardt. J. G. Wilpon. J.W. Betz.
1985	B. J. Sullivan. J. L. C. Sanz.