

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

Audio and Acoustic Signal Processing

2012	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.
2011	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.
2008	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.
2006	Herbert Buchner and Robert Aichner , for the paper co-authored with Walter Kellermann entitled, A Generalization of Blind Source Separation Algorithms for Convolutional Mixtures Based on Second-Order Statistics, <i>IEEE Transactions on Speech and Audio Processing</i> , Volume 13, Number 1, January 2005.
2002	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.
1995	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.

Digital Signal Processing

1997	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.
1996	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.
1995	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.
1994	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.
1993	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.
1988	T. H.-Y. Meng .

1987	J. J. Clark, M. R. Palmer.
1986	E. J. Coyle, J. P. Fitch.
1985	B. J. Sullivan.
Image Video and Multidimensional Signal Processing	
2010	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.
2009	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.
2008	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.
2007	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.
2002	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.
2001	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.
1999	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.
1998	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.
1996	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.
1995	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.
1994	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.
1993	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.
1992	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.

1991	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.
Individual Nominations	
2015	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. 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.
2014	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.
2012	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.
Information Forensics and Security	
2014	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.
2010	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.
2008	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.
Machine Learning for Signal Processing (formerly known as Neural Networks for Signal Processing)	
2012	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.
2007	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.
2003	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.
Multidimensional Signal Processing	
1988	P. Maragos .

1987	F. U. Dowla, S.H. Nawab.
1986	D. J. Rossi.
1985	J. L. C. Sanz.
Multimedia Signal Processing	
2013	Kalpna 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.
2005	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.
Neural Networks for Signal Processing	
1998	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.
Sensor Array and Multichannel	
2015	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.
2014	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.
2013	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.
2012	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.
2011	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.
2010	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.
2007	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.
2006	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.

2005	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.
2003	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.
2002	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.
1999	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.
Signal Processing for Communications and Networking (formerly known as Signal Processing for Communications)	
2015	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.
2014	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.
2013	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.
2010	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.
2008	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.
2007	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.
Signal Processing for Communications	
2006	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.
2005	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.
2004	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.

2003	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.
2002	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.
2000	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. 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.
Signal Processing Theory and Methods	
2015	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.
2011	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.
2010	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.
2007	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.
2005	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.
2003	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.
2001	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.
2000	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.
Spectral Estimation and Modeling	
1990	J. Krolik.
1988	H. Wang.
1987	M. R. Raghuveer.

1986	A. O. Steinhardt.
Speech and Language Processing (formerly known as Speech Processing)	
2014	<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>
2012	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.
2010	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.
2009	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.
2006	Michael L. Seltzer , for the paper co-authored with Bhiksha Raj and Richard M. Stern entitled, Likelihood-Maximizing Beamforming for Robust Hands-Free Speech Recognition, <i>IEEE Transactions on Speech and Audio Processing</i> , Volume 12, Number 5, September 2004.
2004	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.
2001	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.
2000	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.
1999	<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	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.
1997	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.
1996	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.
1994	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.
1993	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.
1992	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.
1990	K. F. Lee .
1988	M. J. T. Smith .
1986	J. G. Wilpon .
Statistical Signal and Array Processing	
1998	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.
1997	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.
1996	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.
1993	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.
1992	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.
1991	Michael Zoltowski and Demosthenis Stavrinos , for the paper entitled, A Sensor Array Signal Processing Via a Procrustes Rotations Based Eigeanalysis of the ESPRIT Data Pencil, <i>IEEE Transactions on Acoustics, Speech and Signal Processing</i> , Volume 37, Number 6, June 1989.
Underwater Acoustics for Signal Processing	
1989	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.
1986	J.W. Betz .

VLSI for Signal Processing

1994	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.
1991	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.
1989	E. A. Lee.