

Martin Haardt

List of Publications by Year in descending order

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289
papers

9,599
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all docs

289
docs citations

289
times ranked

4644
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Kronecker Product-Based Space-Time Block Codes. IEEE Wireless Communications Letters, 2022, 11, 386-390. | 3.2 | 3 |
| 2 | Constrained Cram r-Rao bounds for reconstruction problems formulated as coupled canonical polyadic decompositions. Signal Processing, 2022, 198, 108573. | 2.1 | 0 |
| 3 | Joint Model Order Estimation for Multiple Tensors with A Coupled Mode and Applications to the Joint Decomposition of EEG, MEG Magnetometer, and Gradiometer Tensors. , 2022, , . | | 2 |
| 4 | Double-RIS Versus Single-RIS Aided Systems: Tensor-Based MIMO Channel Estimation and Design Perspectives. , 2022, , . | | 13 |
| 5 | Multilinear Generalized Singular Value Decomposition (ML-GSVD) and Its Application to Multiuser MIMO Systems. IEEE Transactions on Signal Processing, 2022, 70, 2783-2797. | 3.2 | 3 |
| 6 | Reweighted Low-Rank Factorization With Deep Prior for Image Restoration. IEEE Transactions on Signal Processing, 2022, 70, 3514-3529. | 3.2 | 2 |
| 7 | Tensor-Based Near-Field Localization Using Massive Antenna Arrays. IEEE Transactions on Signal Processing, 2021, 69, 5830-5845. | 3.2 | 7 |
| 8 | Using the Multi-Linear Rank- $(r, r, 1)$ Decomposition for the Detection of the 200 Hz Band Activity in Somatosensory Evoked Magnetic Fields and Somatosensory Evoked Electrical Potentials. IEEE Access, 2021, 9, 106232-106244. | 2.6 | 3 |
| 9 | Conditional and Unconditional Cram r-Rao Bounds for Near-Field Localization in Bistatic MIMO Radar Systems. IEEE Transactions on Signal Processing, 2021, 69, 3220-3234. | 3.2 | 9 |
| 10 | TRICE: A Channel Estimation Framework for RIS-Aided Millimeter-Wave MIMO Systems. IEEE Signal Processing Letters, 2021, 28, 513-517. | 2.1 | 65 |
| 11 | Gridless Channel Estimation for Hybrid mmWave MIMO Systems via Tensor-ESPRIT Algorithms in DFT BeamSpace. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 816-831. | 7.3 | 23 |
| 12 | Tensor-Based Receiver for Joint Channel, Data, and Phase-Noise Estimation in MIMO-OFDM Systems. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 803-815. | 7.3 | 14 |
| 13 | Joint Channel, Data, and Phase-Noise Estimation in MIMO-OFDM Systems Using a Tensor Modeling Approach. , 2021, , . | | 1 |
| 14 | Fully Digital and Hybrid Beamforming Design for Millimeter-Wave MIMO-OFDM Two-Way Relaying Systems. , 2021, , . | | 1 |
| 15 | Multi-dimensional model order estimation using Linear Regression of Global Eigenvalues (LaRGE) with applications to EEG and MEG recordings. , 2021, , . | | 5 |
| 16 | Coupled Coarray Tensor CPD for DOA Estimation With Coprime L-Shaped Array. IEEE Signal Processing Letters, 2021, 28, 1545-1549. | 2.1 | 66 |
| 17 | Tensor-Based Channel Estimation and Reflection Design for RIS-Aided Millimeter-Wave MIMO Communication Systems. , 2021, , . | | 8 |
| 18 | Coupled CP Decomposition of EEG and MEG Magnetometer and Gradiometer Measurements via the Coupled SECSI Framework. , 2021, , . | | 2 |

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| 19 | Tensor-Based Downlink Channel Reconstruction for FDD Massive MIMO. , 2021, , . | | 1 |
| 20 | Semi-blind receivers for MIMO multi-relaying systems via rank-one tensor approximations. Signal Processing, 2020, 166, 107254. | 2.1 | 14 |
| 21 | Hybrid Beamforming Design for Downlink MU-MIMO-OFDM Millimeter-Wave Systems. , 2020, , . | | 9 |
| 22 | Tensor-Based Framework With Model Order Selection and High Accuracy Factor Decomposition for Time-Delay Estimation in Dynamic Multipath Scenarios. IEEE Access, 2020, 8, 174931-174942. | 2.6 | 4 |
| 23 | Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. IEEE Signal Processing Letters, 2020, 27, 1420-1424. | 2.1 | 6 |
| 24 | Robust tensor-based techniques for antenna array-based GNSS receivers in scenarios with highly correlated multipath components. , 2020, 101, 102715. | | 3 |
| 25 | Compressed Sensing Based Channel Estimation and Open-loop Training Design for Hybrid Analog-digital Massive MIMO Systems. , 2020, , . | | 5 |
| 26 | Multilinear Generalized Singular Value Decomposition (Ml-gsvd) with Application to Coordinated Beamforming in Multi-user MIMO Systems. , 2020, , . | | 6 |
| 27 | Iterative Tensor Receiver for MIMO-GFDM systems. , 2020, , . | | 2 |
| 28 | Multi-Linear Encoding and Decoding for MIMO Systems. , 2020, , . | | 1 |
| 29 | Coupled CP Decomposition of Simultaneous MEG-EEG Signals for Differentiating Oscillators During Photic Driving. Frontiers in Neuroscience, 2020, 14, 261. | 1.4 | 16 |
| 30 | Uplink Multi-user MIMO Detection via Parallel Access. , 2019, , . | | 2 |
| 31 | Efficient Multidimensional Wideband Parameter Estimation for OFDM Based Joint Radar and Communication Systems. IEEE Access, 2019, 7, 112792-112808. | 2.6 | 10 |
| 32 | Maximum Likelihood Estimation of a Low-Rank Probability Mass Tensor From Partial Observations. IEEE Signal Processing Letters, 2019, 26, 1551-1555. | 2.1 | 11 |
| 33 | A Gridless CS Approach for Channel Estimation in Hybrid Massive MIMO Systems. , 2019, , . | | 10 |
| 34 | Enhanced Direct Fitting Algorithms for PARAFAC2 With Algebraic Ingredients. IEEE Signal Processing Letters, 2019, 26, 533-537. | 2.1 | 6 |
| 35 | An Industry and Government Perspective on Challenges and Open Problems in Signal Processing [SP Forum]. IEEE Signal Processing Magazine, 2019, 36, 125-131. | 4.6 | 2 |
| 36 | Estimation of a Low-Rank Probability-Tensor from Sample Sub-Tensors via Joint Factorization Minimizing the Kullback-Leibler Divergence. , 2019, , . | | 4 |

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| 37 | Two-Way MIMO Decode-and-Forward Relaying Systems with Tensor Space-Time Coding. , 2019, , . | | 3 |
| 38 | Efficient computation of the PARAFAC2 decomposition. , 2019, , . | | 3 |
| 39 | Performance Bounds for Coupled CP Model in the Framework of Hyperspectral Super-Resolution. , 2019, , . | | 3 |
| 40 | Semi-Blind Receiver for Two-Hop MIMO Relaying Systems via Selective Kronecker Product Modeling. , 2019, , . | | 2 |
| 41 | Channel Estimation for Hybrid Multi-Carrier mmWave MIMO Systems Using 3-D Unitary Tensor-ESPRIT in DFT beamspace. , 2019, , . | | 5 |
| 42 | A Novel Sensing Matrix Design for Compressed Sensing via Mutual Coherence Minimization. , 2019, , . | | 6 |
| 43 | On the DC balance of multi-level PAM VLC systems. , 2019, , . | | 6 |
| 44 | Unique Word DMT Schemes Using Real-Valued Constellations for IM/DD Optical Systems. IEEE Photonics Technology Letters, 2018, 30, 935-938. | 1.3 | 1 |
| 45 | First-Order Perturbation Analysis of Secsi With Generalized Unfoldings. , 2018, , . | | 0 |
| 46 | Generalized Tensor Contractions for an Improved Receiver Design in MIMO-OFDM Systems. , 2018, , . | | 9 |
| 47 | A new coupled PARAFAC2 decomposition for joint processing of somatosensory evoked magnetic fields and somatosensory evoked electrical potentials. , 2018, , . | | 1 |
| 48 | Efficient Computation of the PARAFAC2 Decomposition via Generalized Tensor Contractions. , 2018, , . | | 4 |
| 49 | On Consistency and Asymptotic Uniqueness in Quasi-Maximum Likelihood Blind Separation of Temporally-Diverse Sources. , 2018, , . | | 1 |
| 50 | Using PARAFAC2 for Multi-Way Component Analysis of Somatosensory Evoked Magnetic Fields and Somatosensory Evoked Electrical Potentials. , 2018, , . | | 3 |
| 51 | Highlights from the Sensor Array and Multichannel Technical Committee: Spotlight on the IEEE Signal Processing Society Technical Committees [In the Spotlight]. IEEE Signal Processing Magazine, 2018, 35, 183-185. | 4.6 | 1 |
| 52 | Performance Analysis of the Gaussian Quasi-Maximum Likelihood Approach for Independent Vector Analysis. IEEE Transactions on Signal Processing, 2018, 66, 5000-5013. | 3.2 | 6 |
| 53 | Performance Analysis of Multi-Dimensional ESPRIT-Type Algorithms for Arbitrary and Strictly Non-Circular Sources With Spatial Smoothing. IEEE Transactions on Signal Processing, 2017, 65, 2262-2276. | 3.2 | 42 |
| 54 | Efficient hybrid space-ground precoding techniques for multi-beam satellite systems. , 2017, , . | | 6 |

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| 55 | Design of space-time block coded unique word OFDM systems. , 2017, , . | | 0 |
| 56 | Perturbation analysis of Joint Eigenvalue Decomposition Algorithms. , 2017, , . | | 4 |
| 57 | Generalized Least Squares for ESPRIT-Type Direction of Arrival Estimation. IEEE Signal Processing Letters, 2017, 24, 1681-1685. | 2.1 | 35 |
| 58 | Decoupled signal detection for the uplink of massive MIMO in 5G heterogeneous networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, . | 1.5 | 4 |
| 59 | Efficient multidimensional parameter estimation for joint wideband radar and communication systems based on OFDM. , 2017, , . | | 7 |
| 60 | Second-order performance analysis of Standard ESPRIT. , 2017, , . | | 0 |
| 61 | Unique Word DMT Schemes for Optical Systems With Intensity Modulation and Direct Detection. Journal of Lightwave Technology, 2017, 35, 3862-3869. | 2.7 | 2 |
| 62 | Higher order direction finding from rectangular cumulant matrices: The rectangular cum_3 algorithm. Signal Processing, 2017, 133, 240-249. | 2.1 | 8 |
| 63 | Performance analysis of least-squares khatri-rao factorization. , 2017, , . | | 1 |
| 64 | Channel estimation for hybrid multi-carrier mmwave MIMO systems using three-dimensional unitary esprit in DFT beamspace. , 2017, , . | | 14 |
| 65 | Joint MEG-EEG signal decomposition using the coupled SECSI framework: Validation on a controlled experiment. , 2017, , . | | 5 |
| 66 | Generalized tensor contraction with application to khatri-rao coded MIMO OFDM systems. , 2017, , . | | 10 |
| 67 | A root-CMA algorithm for multi-user separation. , 2017, , . | | 0 |
| 68 | Analysis of the photic driving effect via joint EEG and MEG data processing based on the coupled CP decomposition. , 2017, , . | | 13 |
| 69 | Channel estimation and training design for hybrid multi-carrier MmWave massive MIMO systems: The beamspace ESPRIT approach. , 2017, , . | | 23 |
| 70 | FBMC Distributed and Cooperative Systems. , 2017, , 421-440. | | 0 |
| 71 | MIMO-FBMC Transceivers. , 2017, , 341-374. | | 0 |
| 72 | Analytical performance analysis of the Semi-Algebraic framework for approximate CP decompositions via Simultaneous matrix diagonalizations (SECSI). , 2017, , . | | 0 |

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| 73 | HOSVD-Based Denoising for Improved Channel Prediction of Weak Massive MIMO Channels. , 2017, , . | | 5 |
| 74 | Performance analysis of ESPRIT-Type algorithms for co-array structures. , 2017, , . | | 4 |
| 75 | PAM-transmission with optimal detection for dispersive optical channels with intensity modulation and direct detection. , 2017, , . | | 1 |
| 76 | The Extended "Sequentially Drilled" Joint Congruence Transformation and Its Application in Gaussian Independent Vector Analysis. IEEE Transactions on Signal Processing, 2017, 65, 6332-6344. | 3.2 | 2 |
| 77 | Rank-One Tensor Modeling Approach to Joint Channel and Symbol Estimation in Two-Hop MIMO Relaying Systems. , 2017, , . | | 2 |
| 78 | Linear detection schemes for MIMO UW-OFDM. , 2016, , . | | 4 |
| 79 | Gridless super-resolution direction finding for strictly non-circular sources based on atomic norm minimization. , 2016, , . | | 7 |
| 80 | Virtual Massive MIMO Beamforming Gains for 5G User Terminals. , 2016, , . | | 2 |
| 81 | Extension of SeDJoCo and its use in a combination of multicast and coordinated multi-point systems. , 2016, , . | | 2 |
| 82 | First-order perturbation analysis of low-rank tensor approximations based on the truncated HOSVD. , 2016, , . | | 5 |
| 83 | Extension of the semi-algebraic framework for approximate CP decompositions via non-symmetric simultaneous matrix diagonalization. , 2016, , . | | 4 |
| 84 | Analytical performance assessment of esprit-type algorithms for coexisting circular and strictly non-circular signals. , 2016, , . | | 6 |
| 85 | Noisy Compressive Sampling Based on Block-Sparse Tensors: Performance Limits and Beamforming Techniques. IEEE Transactions on Signal Processing, 2016, 64, 6075-6088. | 3.2 | 7 |
| 86 | Synchronization and channel estimation for optical block-transmission systems with IM/DD. , 2016, , . | | 2 |
| 87 | A channel matching based hybrid analog-digital strategy for massive multi-user MIMO downlink systems. , 2016, , . | | 22 |
| 88 | Block Transmission with Frequency Domain Equalization for VLC. Signals and Communication Technology, 2016, , 299-323. | 0.4 | 5 |
| 89 | On multiple solutions of the "sequentially drilled" joint congruence transformation (SeDJoCo) problem for semi-blind source separation. , 2016, , . | | 4 |
| 90 | Subspace-based adaptive widely linear blind channel estimation for constrained minimum variance CDMA receiver. , 2016, , . | | 1 |

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| 91 | On the impact of highpass filtering when using PAM-FDE for visible light communication. , 2016, , . | | 3 |
| 92 | Sparsity-aware direction finding for strictly non-circular sources based on rank minimization. , 2016, , . | | 7 |
| 93 | Extension of the semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalization to the efficient calculation of coupled CP decompositions. , 2016, , . | | 10 |
| 94 | Analytical performance evaluation of multi-dimensional Tensor-ESPRIT-based algorithms for strictly non-circular sources. , 2016, , . | | 1 |
| 95 | Low rank approximation based hybrid precoding schemes for multi-carrier single-user massive MIMO systems. , 2016, , . | | 24 |
| 96 | Deterministic Cram r-Rao Bound for Strictly Non-Circular Sources and Analytical Analysis of the Achievable Gains. IEEE Transactions on Signal Processing, 2016, 64, 4417-4431. | 3.2 | 38 |
| 97 | Power Line Communication in automotive harness on the example of Local Interconnect Network. , 2016, , . | | 6 |
| 98 | MIMO Signal Processing in Offset-QAM Based Filter Bank Multicarrier Systems. IEEE Transactions on Signal Processing, 2016, 64, 5733-5762. | 3.2 | 96 |
| 99 | Sparsity-based direction-of-arrival estimation for strictly non-circular sources. , 2016, , . | | 11 |
| 100 | Transmit beamforming aided amplify-and-forward MIMO full-duplex relaying with limited dynamic range. Signal Processing, 2016, 127, 266-281. | 2.1 | 33 |
| 101 | Uplink block diagonalization for massive MIMO-OFDM systems with distributed antennas. , 2015, , . | | 3 |
| 102 | Joint design of multi-tap filters and power control for FBMC/OQAM based two-way decode-and-forward relaying systems in highly frequency selective channels. , 2015, , . | | 1 |
| 103 | Advanced channel prediction concepts for 5G radio systems. , 2015, , . | | 5 |
| 104 | Deterministic Cram r-Rao bound for a mixture of circular and strictly non-circular signals. , 2015, , . | | 0 |
| 105 | Esprit-type algorithms for a received mixture of circular and strictly non-circular signals. , 2015, , . | | 13 |
| 106 | Precoder and equalizer design for multi-user MIMO FBMC/OQAM with highly frequency selective channels. , 2015, , . | | 7 |
| 107 | Extension of the "Sequentially Drilled" Joint Congruence transformation (SeDJoCo) problem. , 2015, , . | | 2 |
| 108 | Joint Channel Estimation for Three-Hop MIMO Relaying Systems. IEEE Signal Processing Letters, 2015, 22, 2430-2434. | 2.1 | 12 |

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| 109 | Distributed beamforming for cooperative networks with widely-linear processing at the relays and the receiver. , 2015, , . | | 0 |
| 110 | Energy Efficient Two-Way Non-Regenerative Relaying for Relays with Multiple Antennas. IEEE Signal Processing Letters, 2015, 22, 1079-1083. | 2.1 | 28 |
| 111 | Interference Neutralization for Non-Regenerative Two-Way Relaying Networks“Part I: Feasibility. IEEE Transactions on Signal Processing, 2015, 63, 4544-4556. | 3.2 | 2 |
| 112 | Towards a non-error floor multi-stream beamforming design for FBMC/OQAM. , 2015, , . | | 4 |
| 113 | Interference Neutralization for Non-Regenerative Two-Way Relaying Networks“Part II: Optimization. IEEE Transactions on Signal Processing, 2015, 63, 4557-4571. | 3.2 | 1 |
| 114 | Efficient techniques for multi-gigabits/s transmission over plastic optical fiber. , 2015, , . | | 5 |
| 115 | Enhanced Tensor Based Semi-blind Estimation Algorithm for Relay-Assisted MIMO Systems. Lecture Notes in Computer Science, 2015, , 64-72. | 1.0 | 2 |
| 116 | R-dimensional esprit-type algorithms for strictly second-order non-circular sources and their performance analysis. IEEE Transactions on Signal Processing, 2014, 62, 4824-4838. | 3.2 | 68 |
| 117 | Secrecy rate maximization for MIMO Gaussian wiretap channels with multiple eavesdroppers via alternating matrix POTDC. , 2014, , . | | 15 |
| 118 | Direction finding algorithms based on joint iterative subspace optimization. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2541-2553. | 2.6 | 15 |
| 119 | Tensor-based channel estimation for non-regenerative two-way relaying networks with multiple relays. , 2014, , . | | 1 |
| 120 | Coordinated Tomlinson-Harashima precoding design algorithms for overloaded multi-user MIMO systems. , 2014, , . | | 2 |
| 121 | Asymptotic performance analysis of esprit-type algorithms for circular and strictly non-circular sources with spatial smoothing. , 2014, , . | | 3 |
| 122 | Analytical Performance Assessment of Multi-Dimensional Matrix- and Tensor-Based ESPRIT-Type Algorithms. IEEE Transactions on Signal Processing, 2014, 62, 2611-2625. | 3.2 | 78 |
| 123 | Adaptive Widely Linear Reduced-Rank Beamforming Based on Joint Iterative Optimization. IEEE Signal Processing Letters, 2014, 21, 265-269. | 2.1 | 30 |
| 124 | High resolution direction finding from rectangular higher order cumulant matrices: The rectangular 2Q-music algorithms. , 2014, , . | | 3 |
| 125 | Overview and comparison of on“ground and on“board beamforming techniques in mobile satellite service applications. International Journal of Satellite Communications and Networking, 2014, 32, 291-308. | 1.2 | 29 |
| 126 | Tensor-based algorithms for learning multidimensional separable dictionaries. , 2014, , . | | 38 |

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| 127 | Analytical ESPRIT-based performance study: What can we gain from non-circular sources?. , 2014, , . | | 2 |
| 128 | Sum-rate maximization for bi-directional full-duplex MIMO systems under multiple linear constraints. , 2014, , . | | 3 |
| 129 | EEG extended source localization: Tensor-based vs. conventional methods. NeuroImage, 2014, 96, 143-157. | 2.1 | 168 |
| 130 | Multi-Branch Tomlinson-Harashima Precoding Design for MU-MIMO Systems: Theory and Algorithms. IEEE Transactions on Communications, 2014, 62, 939-951. | 4.9 | 56 |
| 131 | An Efficient Transmission Strategy for the Multicarrier Multiuser MIMO Downlink. IEEE Transactions on Vehicular Technology, 2014, 63, 628-642. | 3.9 | 14 |
| 132 | Subspace Methods and Exploitation of Special Array Structures. Academic Press Library in Signal Processing, 2014, 3, 651-717. | 0.8 | 38 |
| 133 | Coordinated beamforming in MIMO FBMC/OQAM systems. , 2014, , . | | 7 |
| 134 | Tensor-based approach to channel estimation in amplify-and-forward MIMO relaying systems. , 2014, , . | | 8 |
| 135 | Coordinated beamforming for the multi-user MIMO downlink using FBMC/OQAM. , 2014, , . | | 3 |
| 136 | SINR balancing for non-regenerative two-way relay networks with interference neutralization. , 2014, , . | | 4 |
| 137 | Intrinsic interference mitigating coordinated beamforming for the FBMC/OQAM based downlink. Eurasip Journal on Advances in Signal Processing, 2014, 2014, . | 1.0 | 6 |
| 138 | Tensor subspace Tracking via Kronecker structured projections (TeTraKron) for time-varying multidimensional harmonic retrieval. Eurasip Journal on Advances in Signal Processing, 2014, 2014, . | 1.0 | 8 |
| 139 | On the performance of block transmission schemes in optical channels with a Gaussian profile. , 2014, , . | | 8 |
| 140 | Joint beamforming and transmit design for the non-regenerative MIMO broadcast relay channel. , 2014, , . | | 0 |
| 141 | Robust adaptive beamforming algorithms using the constrained constant modulus criterion. IET Signal Processing, 2014, 8, 447-457. | 0.9 | 11 |
| 142 | Secrecy rate maximization for information and energy transfer in MIMO beamforming networks. , 2014, , . | | 4 |
| 143 | Sum-Rate Maximization With Minimum Power Consumption for MIMO DF Two-Way Relaying Part I: Relay Optimization. IEEE Transactions on Signal Processing, 2013, 61, 3563-3577. | 3.2 | 19 |
| 144 | Sum-Rate Maximization With Minimum Power Consumption for MIMO DF Two-Way Relaying Part II: Network Optimization. IEEE Transactions on Signal Processing, 2013, 61, 3578-3591. | 3.2 | 14 |

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| 145 | Flexible coordinated beamforming (FlexCoBF) for the downlink of multi-user MIMO systems in single and clustered multiple cells. <i>Signal Processing</i> , 2013, 93, 2462-2473. | 2.1 | 11 |
| 146 | A semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalizations (SECSI). <i>Signal Processing</i> , 2013, 93, 2722-2738. | 2.1 | 58 |
| 147 | Multidimensional prewhitening for enhanced signal reconstruction and parameter estimation in colored noise with Kronecker correlation structure. <i>Signal Processing</i> , 2013, 93, 3209-3226. | 2.1 | 20 |
| 148 | Adaptive Frequency-Domain Group-Based Shrinkage Estimators for UWB Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2013, 62, 3639-3652. | 3.9 | 1 |
| 149 | Robust multi-dimensional model order estimation in the presence of brief sensor failures. , 2013, , . | | 3 |
| 150 | Channel Prediction for B4G Radio Systems. , 2013, , . | | 7 |
| 151 | Performance analysis of ESPRIT-type algorithms for strictly non-circular sources using structured least squares. , 2013, , . | | 4 |
| 152 | Generalized Design of Low-Complexity Block Diagonalization Type Precoding Algorithms for Multiuser MIMO Systems. <i>IEEE Transactions on Communications</i> , 2013, 61, 4232-4242. | 4.9 | 98 |
| 153 | 3-D Unitary ESPRIT: Accurate attitude estimation for unmanned aerial vehicles with a hexagon-shaped ESPAR array. , 2013, 23, 701-711. | | 5 |
| 154 | Beamspace direction finding based on the conjugate gradient and the auxiliary vector filtering algorithms. <i>Signal Processing</i> , 2013, 93, 641-651. | 2.1 | 14 |
| 155 | DHTs for Cluster-Based Ad-Hoc Networks Employing Multi-Hop Relaying. , 2013, , . | | 0 |
| 156 | Robust design of block diagonalization using perturbation analysis. , 2013, , . | | 2 |
| 157 | Optimalwidely-linear distributed beamforming for relay networks. , 2013, , . | | 0 |
| 158 | On the Use of Filter Bank Based Multicarrier Modulation for Professional Mobile Radio. , 2013, , . | | 25 |
| 159 | Tensor subspace tracking via Kronecker structured projections (TeTraKron). , 2013, , . | | 3 |
| 160 | Performance analysis of ESPRIT-type algorithms for non-circular sources. , 2013, , . | | 15 |
| 161 | Reduced-complexity distributed beamforming algorithm for individual relay power constraints. , 2013, , . | | 1 |
| 162 | Sum rate maximization for multi-pair two-way relaying with single-antenna amplify and forward relays. , 2012, , . | | 22 |

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| 163 | A semi-algebraic framework for approximate CP decompositions via joint matrix diagonalization and generalized unfoldings. , 2012, , . | | 15 |
| 164 | Linear precoding-based geometric mean decomposition (LP-GMD) for multi-user MIMO systems. , 2012, , . | | 3 |
| 165 | Robust source number enumeration for r-dimensional arrays in case of brief sensor failures. , 2012, , . | | 16 |
| 166 | Power allocation/beamforming for DF MIMO two-way relaying: Relay and network optimization. , 2012, , . | | 3 |
| 167 | Polynomial-time DC (POTDC) for sum-rate maximization in two-way AF MIMO relaying. , 2012, , . | | 3 |
| 168 | Distributed beamforming for two-way relaying networks with individual power constraints. , 2012, , . | | 11 |
| 169 | Transmit beamforming for inter-operator spectrum sharing: From theory to practice. , 2012, , . | | 7 |
| 170 | Efficient spatial scheduling and precoding algorithms for MC MU MIMO systems. , 2012, , . | | 1 |
| 171 | A "Sequentially Drilled" Joint Congruence (SeDJoCo) Transformation With Applications in Blind Source Separation and Multiuser MIMO Systems. IEEE Transactions on Signal Processing, 2012, 60, 2744-2757. | 3.2 | 19 |
| 172 | Lattice reduction-aided regularized block diagonalization for multiuser MIMO systems. , 2012, , . | | 7 |
| 173 | Optimal and suboptimal beamforming for multi-operator two-way relaying with a MIMO amplify-and-forward relay. , 2012, , . | | 4 |
| 174 | Multi-branch tomlinson-harashima precoding for single-user MIMO systems. , 2012, , . | | 4 |
| 175 | Low-complexity lattice reduction-aided channel inversion methods for large multi-User MIMO systems. , 2012, , . | | 1 |
| 176 | Adaptive Widely Linear Reduced-Rank Interference Suppression Based on the Multistage Wiener Filter. IEEE Transactions on Signal Processing, 2012, 60, 4003-4016. | 3.2 | 25 |
| 177 | Relay Assisted Physical Resource Sharing: Projection Based Separation of Multiple Operators (ProBaSeMO) for Two-Way Relaying With MIMO Amplify and Forward Relays. IEEE Transactions on Signal Processing, 2012, 60, 4834-4848. | 3.2 | 20 |
| 178 | Satellite ground stations with electronic beam steering. , 2012, , . | | 4 |
| 179 | Sum-Rate Maximization in Two-Way AF MIMO Relaying: Polynomial Time Solutions to a Class of DC Programming Problems. IEEE Transactions on Signal Processing, 2012, 60, 5478-5493. | 3.2 | 64 |
| 180 | Impact of synchronization errors on Alamouti-STBC-based cooperative MIMO schemes. , 2012, , . | | 1 |

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| 181 | Prolonged network life-time in self-organizing peer-to-peer networks with E-RSSI clustering. , 2012, , . | | 2 |
| 182 | Analysis of Multihop Relaying Networks: Communication Between Range-Limited and Cooperative Nodes. IEEE Vehicular Technology Magazine, 2012, 7, 40-47. | 2.8 | 24 |
| 183 | Comparison of OFDM and frequency domain equalization for dispersive optical channels with direct detection. , 2012, , . | | 16 |
| 184 | Multi-way space-time-wave-vector analysis for EEG source separation. Signal Processing, 2012, 92, 1021-1031. | 2.1 | 32 |
| 185 | Efficient relay sharing (EReSH) between multiple operators in amplify-and-forward relaying systems. , 2011, , . | | 0 |
| 186 | Knowledge-aided direction finding based on Unitary ESPRIT. , 2011, , . | | 7 |
| 187 | Robust adaptive beamforming using worst-case optimization with constrained constant modulus criterion. , 2011, , . | | 0 |
| 188 | A joint clustering and routing scheme to maximize link performance in cooperative MIMO ad-hoc networks. , 2011, , . | | 3 |
| 189 | Coordinated beamforming for MIMO interference relay channel with multiple stream transmission. , 2011, , . | | 0 |
| 190 | Low-complexity robust beamforming based on conjugate gradient techniques. , 2011, , . | | 4 |
| 191 | Robust adaptive beamforming algorithms using low-complexity mismatch estimation. , 2011, , . | | 7 |
| 192 | Blind Adaptive Constrained Constant-Modulus Reduced-Rank Interference Suppression Algorithms Based on Interpolation and Switched Decimation. IEEE Transactions on Signal Processing, 2011, 59, 681-695. | 3.2 | 30 |
| 193 | Beamspace direction finding based on the conjugate gradient algorithm. , 2011, , . | | 2 |
| 194 | Lightweight, mobile free-space optical communications in disaster scenarios for transmission of Earth observation data: feasibility study. , 2011, , . | | 2 |
| 195 | Ad Hoc Networking Solutions. IEEE Vehicular Technology Magazine, 2011, 6, 31-36. | 2.8 | 4 |
| 196 | Recent advances in multiuser MIMO systems. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, . | 1.5 | 1 |
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