

Martin Haardt

List of Publications by Year in descending order

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289
papers

9,599
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109321

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85
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all docs

289
docs citations

289
times ranked

4644
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero-Forcing Methods for Downlink Spatial Multiplexing in Multiuser MIMO Channels. IEEE Transactions on Signal Processing, 2004, 52, 461-471.	5.3	2,566
2	An introduction to the multi-user MIMO downlink. , 2004, 42, 60-67.		691
3	Unitary ESPRIT: how to obtain increased estimation accuracy with a reduced computational burden. IEEE Transactions on Signal Processing, 1995, 43, 1232-1242.	5.3	502
4	Closed-form 2-D angle estimation with rectangular arrays in element space or beamspace via unitary ESPRIT. IEEE Transactions on Signal Processing, 1996, 44, 316-328.	5.3	449
5	Higher-Order SVD-Based Subspace Estimation to Improve the Parameter Estimation Accuracy in Multidimensional Harmonic Retrieval Problems. IEEE Transactions on Signal Processing, 2008, 56, 3198-3213.	5.3	347
6	Generalized Design of Multi-User MIMO Precoding Matrices. IEEE Transactions on Wireless Communications, 2008, 7, 953-961.	9.2	246
7	Smart antenna technologies for future wireless systems: trends and challenges. , 2004, 42, 90-97.		218
8	Unitary root-MUSIC with a real-valued eigendecomposition: a theoretical and experimental performance study. IEEE Transactions on Signal Processing, 2000, 48, 1306-1314.	5.3	196
9	Simultaneous Schur decomposition of several nonsymmetric matrices to achieve automatic pairing in multidimensional harmonic retrieval problems. IEEE Transactions on Signal Processing, 1998, 46, 161-169.	5.3	186
10	C-terminal Truncations Destabilize the Cystic Fibrosis Transmembrane Conductance Regulator without Impairing Its Biogenesis. Journal of Biological Chemistry, 1999, 274, 21873-21877.	3.4	175
11	EEG extended source localization: Tensor-based vs. conventional methods. NeuroImage, 2014, 96, 143-157.	4.2	168
12	The TD-CDMA based UTRA TDD mode. IEEE Journal on Selected Areas in Communications, 2000, 18, 1375-1385.	14.0	140
13	Comparative study of joint-detection techniques for TD-CDMA based mobile radio systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 1461-1475.	14.0	130
14	Tensor-Based Channel Estimation and Iterative Refinements for Two-Way Relaying With Multiple Antennas and Spatial Reuse. IEEE Transactions on Signal Processing, 2010, 58, 5720-5735.	5.3	130
15	Generalized Design of Low-Complexity Block Diagonalization Type Precoding Algorithms for Multiuser MIMO Systems. IEEE Transactions on Communications, 2013, 61, 4232-4242.	7.8	98
16	MIMO Signal Processing in Offset-QAM Based Filter Bank Multicarrier Systems. IEEE Transactions on Signal Processing, 2016, 64, 5733-5762.	5.3	96
17	CooH-Terminal Truncations Promote Proteasome-Dependent Degradation of Mature Cystic Fibrosis Transmembrane Conductance Regulator from Post-Golgi Compartments. Journal of Cell Biology, 2001, 153, 957-970.	5.2	78
18	Analytical Performance Assessment of Multi-Dimensional Matrix- and Tensor-Based ESPRIT-Type Algorithms. IEEE Transactions on Signal Processing, 2014, 62, 2611-2625.	5.3	78

#	ARTICLE	IF	CITATIONS
19	Algebraic Norm-Maximizing (ANOMAX) Transmit Strategy for Two-Way Relaying With MIMO Amplify and Forward Relays. IEEE Signal Processing Letters, 2009, 16, 909-912.	3.6	73
20	The Role of the C Terminus and Na ⁺ /H ⁺ Exchanger Regulatory Factor in the Functional Expression of Cystic Fibrosis Transmembrane Conductance Regulator in Nonpolarized Cells and Epithelia. Journal of Biological Chemistry, 2003, 278, 22079-22089.	3.4	69
21	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.	5.3	68
22	Coupled Coarray Tensor CPD for DOA Estimation With Coprime L-Shaped Array. IEEE Signal Processing Letters, 2021, 28, 1545-1549.	3.6	66
23	Smart antennas for combined DOA and joint channel estimation in time-slotted CDMA mobile radio systems with joint detection. IEEE Transactions on Vehicular Technology, 2000, 49, 293-306.	6.3	65
24	TRICE: A Channel Estimation Framework for RIS-Aided Millimeter-Wave MIMO Systems. IEEE Signal Processing Letters, 2021, 28, 513-517.	3.6	65
25	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.	5.3	64
26	Blind Adaptive Constrained Reduced-Rank Parameter Estimation Based on Constant Modulus Design for CDMA Interference Suppression. IEEE Transactions on Signal Processing, 2008, 56, 2470-2482.	5.3	63
27	Low-Complexity Space-Time Frequency Scheduling for MIMO Systems With SDMA. IEEE Transactions on Vehicular Technology, 2007, 56, 2775-2784.	6.3	59
28	A semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalizations (SECSI). Signal Processing, 2013, 93, 2722-2738.	3.7	58
29	Linear MMSE Multi-User MIMO Downlink Precoding for Users with Multiple Antennas. , 2006, , .		57
30	Multi-Branch Tomlinson-Harashima Precoding Design for MU-MIMO Systems: Theory and Algorithms. IEEE Transactions on Communications, 2014, 62, 939-951.	7.8	56
31	Multi-dimensional model order selection. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	53
32	Model Order Selection for Short Data: An Exponential Fitting Test (EFT). Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	50
33	Single Snapshot Spatial Smoothing With Improved Effective Array Aperture. IEEE Signal Processing Letters, 2009, 16, 505-508.	3.6	50
34	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.	5.3	42
35	Tensor-based channel estimation (TENGE) for two-way relaying with multiple antennas and spatial reuse. , 2009, , .		39
36	Tensor-based algorithms for learning multidimensional separable dictionaries. , 2014, , .		38

#	ARTICLE	IF	CITATIONS
37	Subspace Methods and Exploitation of Special Array Structures. Academic Press Library in Signal Processing, 2014, 3, 651-717.	0.8	38
38	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.	5.3	38
39	Structured least squares to improve the performance of ESPRIT-type algorithms. IEEE Transactions on Signal Processing, 1997, 45, 792-799.	5.3	37
40	Performance analysis of closed-form, ESPRIT based 2-D angle estimator for rectangular arrays. IEEE Signal Processing Letters, 1996, 3, 124-126.	3.6	36
41	Successive optimization Tomlinson-Harashima precoding (SO THP) for multi-user MIMO systems. , 0, , .		36
42	Generalized Least Squares for ESPRIT-Type Direction of Arrival Estimation. IEEE Signal Processing Letters, 2017, 24, 1681-1685.	3.6	35
43	Transmit beamforming aided amplify-and-forward MIMO full-duplex relaying with limited dynamic range. Signal Processing, 2016, 127, 266-281.	3.7	33
44	Title is missing!. Wireless Personal Communications, 1999, 11, 109-129.	2.7	32
45	Multi-way space-time-wave-vector analysis for EEG source separation. Signal Processing, 2012, 92, 1021-1031.	3.7	32
46	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.	5.3	30
47	Adaptive Widely Linear Reduced-Rank Beamforming Based on Joint Iterative Optimization. IEEE Signal Processing Letters, 2014, 21, 265-269.	3.6	30
48	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.	1.8	29
49	A Novel Tree-Based Scheduling Algorithm For The Downlink Of Multi-User MIMO Systems With ZF Beamforming. , 0, , .		28
50	Energy Efficient Two-Way Non-Regenerative Relaying for Relays with Multiple Antennas. IEEE Signal Processing Letters, 2015, 22, 1079-1083.	3.6	28
51	The future of wireless communications beyond the third generation. Computer Networks, 2001, 37, 83-92.	5.1	27
52	Multi-dimensional space-time-frequency component analysis of event related EEG data using closed-form PARAFAC. , 2009, , .		27
53	Enhanced Model Order Estimation using Higher-Order Arrays. , 2007, , .		25
54	A closed-form solution for multilinear PARAFAC decompositions. , 2008, , .		25

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55	A closed-form solution for Parallel Factor (PARAFAC) Analysis. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	25
56	Tensor-Based Spatial Smoothing (TB-SS) Using Multiple Snapshots. IEEE Transactions on Signal Processing, 2010, 58, 2715-2728.	5.3	25
57	Adaptive Widely Linear Reduced-Rank Interference Suppression Based on the Multistage Wiener Filter. IEEE Transactions on Signal Processing, 2012, 60, 4003-4016.	5.3	25
58	On the Use of Filter Bank Based Multicarrier Modulation for Professional Mobile Radio. , 2013, , .		25
59	Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.	5.3	24
60	Analysis of Multihop Relaying Networks: Communication Between Range-Limited and Cooperative Nodes. IEEE Vehicular Technology Magazine, 2012, 7, 40-47.	3.4	24
61	Low rank approximation based hybrid precoding schemes for multi-carrier single-user massive MIMO systems. , 2016, , .		24
62	Channel estimation and training design for hybrid multi-carrier MmWave massive MIMO systems: The beamspace ESPRIT approach. , 2017, , .		23
63	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.	10.8	23
64	The complete solution for third-generation wireless communications: two modes on air, one winning strategy. IEEE Personal Communications, 2000, 7, 18-24.	3.8	22
65	Robust methods based on the hosvd for estimating the model order in PARAFAC models. , 2008, , .		22
66	Channel Modeling for Multiple Satellite Broadcasting Systems. IEEE Transactions on Broadcasting, 2009, 55, 705-718.	3.2	22
67	Sum rate maximization for multi-pair two-way relaying with single-antenna amplify and forward relays. , 2012, , .		22
68	A channel matching based hybrid analog-digital strategy for massive multi-user MIMO downlink systems. , 2016, , .		22
69	Robust R-D parameter estimation via closed-form PARAFAC. , 2010, , .		21
70	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.	5.3	20
71	Multidimensional prewhitening for enhanced signal reconstruction and parameter estimation in colored noise with Kronecker correlation structure. Signal Processing, 2013, 93, 3209-3226.	3.7	20
72	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.	5.3	19

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73	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.	5.3	19
74	Schur algorithms for joint-detection in TD-CDMA based mobile radio systems. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.	2.5	18
75	Analytical performance evaluation for HOSVD-based parameter estimation schemes. , 2009, , .		16
76	Robust source number enumeration for r-dimensional arrays in case of brief sensor failures. , 2012, , .		16
77	Comparison of OFDM and frequency domain equalization for dispersive optical channels with direct detection. , 2012, , .		16
78	Coupled CP Decomposition of Simultaneous MEG-EEG Signals for Differentiating Oscillators During Photic Driving. Frontiers in Neuroscience, 2020, 14, 261.	2.8	16
79	Efficient Feedback via Subspace-Based Channel Quantization for Distributed Cooperative Antenna Systems with Temporally Correlated Channels. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.7	15
80	A semi-algebraic framework for approximate CP decompositions via joint matrix diagonalization and generalized unfoldings. , 2012, , .		15
81	Performance analysis of ESPRIT-type algorithms for non-circular sources. , 2013, , .		15
82	Secrecy rate maximization for MIMO Gaussian wiretap channels with multiple eavesdroppers via alternating matrix POTDC. , 2014, , .		15
83	Direction finding algorithms based on joint iterative subspace optimization. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2541-2553.	4.7	15
84	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.	5.3	14
85	Beamspace direction finding based on the conjugate gradient and the auxiliary vector filtering algorithms. Signal Processing, 2013, 93, 641-651.	3.7	14
86	An Efficient Transmission Strategy for the Multicarrier Multiuser MIMO Downlink. IEEE Transactions on Vehicular Technology, 2014, 63, 628-642.	6.3	14
87	Channel estimation for hybrid multi-carrier mmwave MIMO systems using three-dimensional unitary esprit in DFT beamspace. , 2017, , .		14
88	Semi-blind receivers for MIMO multi-relaying systems via rank-one tensor approximations. Signal Processing, 2020, 166, 107254.	3.7	14
89	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.	10.8	14
90	Smart antennas for wireless communications beyond the third generation. Computer Communications, 2003, 26, 41-45.	5.1	13

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91	A low-complexity relay transmit strategy for two-way relaying with MIMO amplify and forward relays. , 2010, , .		13
92	Esprit-type algorithms for a received mixture of circular and strictly non-circular signals. , 2015, , .		13
93	Analysis of the photic driving effect via joint EEG and MEG data processing based on the coupled CP decomposition. , 2017, , .		13
94	Double-RIS Versus Single-RIS Aided Systems: Tensor-Based MIMO Channel Estimation and Design Perspectives. , 2022, , .		13
95	Beamforming design for multi-user two-way relaying with MIMO amplify and forward relays. , 2011, , .		12
96	Joint Channel Estimation for Three-Hop MIMO Relaying Systems. IEEE Signal Processing Letters, 2015, 22, 2430-2434.	3.6	12
97	Tensor-based framework for the prediction of frequency-selective time-variant MIMO channels. , 2008, , .		11
98	Using a new structured joint congruence (STJOCO) transformation of Hermitian matrices for precoding in multi-user MIMO systems. , 2010, , .		11
99	Distributed beamforming for two-way relaying networks with individual power constraints. , 2012, , .		11
100	Flexible coordinated beamforming (FlexCoBF) for the downlink of multi-user MIMO systems in single and clustered multiple cells. Signal Processing, 2013, 93, 2462-2473.	3.7	11
101	Robust adaptive beamforming algorithms using the constrained constant modulus criterion. IET Signal Processing, 2014, 8, 447-457.	1.5	11
102	Sparsity-based direction-of-arrival estimation for strictly non-circular sources. , 2016, , .		11
103	Maximum Likelihood Estimation of a Low-Rank Probability Mass Tensor From Partial Observations. IEEE Signal Processing Letters, 2019, 26, 1551-1555.	3.6	11
104	Blind estimation of SIMO channels using a tensor-based subspace method. , 2010, , .		10
105	Extension of the semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalization to the efficient calculation of coupled CP decompositions. , 2016, , .		10
106	Generalized tensor contraction with application to khatri-rao coded MIMO OFDM systems. , 2017, , .		10
107	Efficient Multidimensional Wideband Parameter Estimation for OFDM Based Joint Radar and Communication Systems. IEEE Access, 2019, 7, 112792-112808.	4.2	10
108	A Gridless CS Approach for Channel Estimation in Hybrid Massive MIMO Systems. , 2019, , .		10

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109	Generalized Tensor Contractions for an Improved Receiver Design in MIMO-OFDM Systems. , 2018, , .		9
110	Hybrid Beamforming Design for Downlink MU-MIMO-OFDM Millimeter-Wave Systems. , 2020, , .		9
111	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.	5.3	9
112	Higher Order SVD Based Subspace Estimation to Improve Multi-Dimensional Parameter Estimation Algorithms. , 2006, , .		8
113	Low-Complexity and Energy Efficient Non-Coherent Receivers for UWB Communications. , 2007, , .		8
114	Analytical performance assessment for multi-dimensional Tensor-ESPRIT-type parameter estimation algorithms. , 2010, , .		8
115	Multi-dimensional PARAFAC2 component analysis of multi-channel EEG data including temporal tracking. , 2010, 2010, 5375-8.		8
116	Tensor-based approach to channel estimation in amplify-and-forward MIMO relaying systems. , 2014, , .		8
117	Tensor subspace Tracking via Kronecker structured projections (TeTraKron) for time-varying multidimensional harmonic retrieval. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	8
118	On the performance of block transmission schemes in optical channels with a Gaussian profile. , 2014, , .		8
119	Higher order direction finding from rectangular cumulant matrices: The rectangular $\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0080.gif" overflow="scroll"} < \text{mml:mrow} < \text{mml:mn} > 2 < / \text{mml:mn} < \text{mml:mi} > q < / \text{mml:mi} > < / \text{mml:mrow} > < / \text{mml:math} > \text{-MUSIC algorithms. Signal Processing, 2017, 133, 240-249.$	3.7	8
120	Tensor-Based Channel Estimation and Reflection Design for RIS-Aided Millimeter-Wave MIMO Communication Systems. , 2021, , .		8
121	Tensor-Structure Structured Least Squares (TS-SLS) to Improve the Performance of Multi-Dimensional Esprit-Type Algorithms. , 2007, , .		7
122	Flexible Coordinated Beamforming (FlexCoBF) algorithm for the downlink of multi-user MIMO systems. , 2010, , .		7
123	Knowledge-aided direction finding based on Unitary ESPRIT. , 2011, , .		7
124	Robust adaptive beamforming algorithms using low-complexity mismatch estimation. , 2011, , .		7
125	Transmit beamforming for inter-operator spectrum sharing: From theory to practice. , 2012, , .		7
126	Lattice reduction-aided regularized block diagonalization for multiuser MIMO systems. , 2012, , .		7

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127	Channel Prediction for B4G Radio Systems. , 2013, , .		7
128	Coordinated beamforming in MIMO FBMC/OQAM systems. , 2014, , .		7
129	Precoder and equalizer design for multi-user MIMO FBMC/OQAM with highly frequency selective channels. , 2015, , .		7
130	Gridless super-resolution direction finding for strictly non-circular sources based on atomic norm minimization. , 2016, , .		7
131	Noisy Compressive Sampling Based on Block-Sparse Tensors: Performance Limits and Beamforming Techniques. IEEE Transactions on Signal Processing, 2016, 64, 6075-6088.	5.3	7
132	Sparsity-aware direction finding for strictly non-circular sources based on rank minimization. , 2016, , .		7
133	Efficient multidimensional parameter estimation for joint wideband radar and communication systems based on OFDM. , 2017, , .		7
134	Tensor-Based Near-Field Localization Using Massive Antenna Arrays. IEEE Transactions on Signal Processing, 2021, 69, 5830-5845.	5.3	7
135	Smart antennas for UTRA TDD. European Transactions on Telecommunications, 2001, 12, 393-406.	1.2	6
136	On the introduction of an extended coupling matrix for a 2D bearing estimation with an experimental RF system. Signal Processing, 2007, 87, 2005-2016.	3.7	6
137	Efficient channel quantization scheme for multi-user MIMO broadcast channels with RBD precoding. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	6
138	Single Snapshot R-D Unitary Tensor-ESPRIT Using an Augmentation of the Tensor Order. , 2009, , .		6
139	Multidimensional Unitary Tensor-ESPRIT for non-circular sources. , 2009, , .		6
140	Performance of PPM-Based Non-Coherent Impulse Radio UWB Systems using Sparse Codes in the Presence of Multi-User Interference. , 2009, , .		6
141	Reduced-rank DOA estimation based on joint iterative subspace recursive optimization and grid search. , 2010, , .		6
142	Non-data-aided adaptive beamforming algorithm based on the Widely Linear Auxiliary Vector Filter. , 2011, , .		6
143	Analytical performance assessment of 1-D Structured Least Squares. , 2011, , .		6
144	Intrinsic interference mitigating coordinated beamforming for the FBMC/OQAM based downlink. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.7	6

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145	Analytical performance assessment of esprit-type algorithms for coexisting circular and strictly non-circular signals. , 2016, , .		6
146	Power Line Communication in automotive harness on the example of Local Interconnect Network. , 2016, , .		6
147	Efficient hybrid space-ground precoding techniques for multi-beam satellite systems. , 2017, , .		6
148	Performance Analysis of the Gaussian Quasi-Maximum Likelihood Approach for Independent Vector Analysis. IEEE Transactions on Signal Processing, 2018, 66, 5000-5013.	5.3	6
149	Enhanced Direct Fitting Algorithms for PARAFAC2 With Algebraic Ingredients. IEEE Signal Processing Letters, 2019, 26, 533-537.	3.6	6
150	A Novel Sensing Matrix Design for Compressed Sensing via Mutual Coherence Minimization. , 2019, , .		6
151	On the DC balance of multi-level PAM VLC systems. , 2019, , .		6
152	Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. IEEE Signal Processing Letters, 2020, 27, 1420-1424.	3.6	6
153	Multilinear Generalized Singular Value Decomposition (Ml-gsvd) with Application to Coordinated Beamforming in Multi-user MIMO Systems. , 2020, , .		6
154	A Digital Code Matched Filter-based non-coherent receiver for low data rate TH-PPM-UWB systems in the presence of MUI. , 2009, , .		5
155	Impact of the Receive Antenna Arrays on Spatio-Temporal Availability in Satellite-to-Indoor Broadcasting. IEEE Transactions on Broadcasting, 2010, 56, 171-183.	3.2	5
156	Iterative Sequential GSVD (I-S-GSVD) based prewhitening for multidimensional HOSVD based subspace estimation without knowledge of the noise covariance information. , 2010, , .		5
157	3-D Unitary ESPRIT: Accurate attitude estimation for unmanned aerial vehicles with a hexagon-shaped ESPAR array. , 2013, 23, 701-711.		5
158	Advanced channel prediction concepts for 5G radio systems. , 2015, , .		5
159	Efficient techniques for multi-gigabits/s transmission over plastic optical fiber. , 2015, , .		5
160	First-order perturbation analysis of low-rank tensor approximations based on the truncated HOSVD. , 2016, , .		5
161	Block Transmission with Frequency Domain Equalization for VLC. Signals and Communication Technology, 2016, , 299-323.	0.5	5
162	Joint MEG-EEG signal decomposition using the coupled SECSI framework: Validation on a controlled experiment. , 2017, , .		5

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163	HOSVD-Based Denoising for Improved Channel Prediction of Weak Massive MIMO Channels. , 2017, , .		5
164	Channel Estimation for Hybrid Multi-Carrier mmWave MIMO Systems Using 3-D Unitary Tensor-ESPRIT in DFT beamspace. , 2019, , .		5
165	Compressed Sensing Based Channel Estimation and Open-loop Training Design for Hybrid Analog-digital Massive MIMO Systems. , 2020, , .		5
166	Multi-dimensional model order estimation using Linear Regression of Global Eigenvalues (LaRGE) with applications to EEG and MEG recordings. , 2021, , .		5
167	Linear and Dirty-Paper Techniques for the Multiuser MIMO Downlink. , 2005, , 209-243.		4
168	Achievable throughput approximation for RBD precoding at high SNRS. , 2009, , .		4
169	Non-Coherent UWB Communications. Frequenz, 2009, 63, .	0.9	4
170	Identification of Signal Components in Multi-Channel EEG Signals via Closed-Form PARAFAC Analysis and Appropriate Preprocessing. IFMBE Proceedings, 2009, , 1226-1230.	0.3	4
171	Robust R-D parameter estimation via closed-form PARAFAC in Kronecker colored environments. , 2010, , .		4
172	An iterative Widely Linear interference suppression algorithm based on Auxiliary Vector Filtering. , 2010, , .		4
173	Low-complexity robust beamforming based on conjugate gradient techniques. , 2011, , .		4
174	Ad Hoc Networking Solutions. IEEE Vehicular Technology Magazine, 2011, 6, 31-36.	3.4	4
175	Optimal and suboptimal beamforming for multi-operator two-way relaying with a MIMO amplify-and-forward relay. , 2012, , .		4
176	Multi-branch tomlinson-harashima precoding for single-user MIMO systems. , 2012, , .		4
177	Satellite ground stations with electronic beam steering. , 2012, , .		4
178	Performance analysis of ESPRIT-type algorithms for strictly non-circular sources using structured least squares. , 2013, , .		4
179	SINR balancing for non-regenerative two-way relay networks with interference neutralization. , 2014, , .		4
180	Secrecy rate maximization for information and energy transfer in MIMO beamforming networks. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
181	Towards a non-error floor multi-stream beamforming design for FBMC/OQAM. , 2015, , .		4
182	Linear detection schemes for MIMO UW-OFDM. , 2016, , .		4
183	Extension of the semi-algebraic framework for approximate CP decompositions via non-symmetric simultaneous matrix diagonalization. , 2016, , .		4
184	On multiple solutions of the "sequentially drilled" joint congruence transformation (SeDJoCo) problem for semi-blind source separation. , 2016, , .		4
185	Perturbation analysis of Joint Eigenvalue Decomposition Algorithms. , 2017, , .		4
186	Decoupled signal detection for the uplink of massive MIMO in 5G heterogeneous networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	4
187	Performance analysis of ESPRIT-Type algorithms for co-array structures. , 2017, , .		4
188	Efficient Computation of the PARAFAC2 Decomposition via Generalized Tensor Contractions. , 2018, , .		4
189	Estimation of a Low-Rank Probability-Tensor from Sample Sub-Tensors via Joint Factorization Minimizing the Kullback-Leibler Divergence. , 2019, , .		4
190	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.	4.2	4
191	Self-Organizing Network with Intelligent Relaying (SONIR). , 2010, , .		3
192	A joint clustering and routing scheme to maximize link performance in cooperative MIMO ad-hoc networks. , 2011, , .		3
193	Linear precoding-based geometric mean decomposition (LP-GMD) for multi-user MIMO systems. , 2012, , .		3
194	Power allocation/beamforming for DF MIMO two-way relaying: Relay and network optimization. , 2012, , .		3
195	Polynomial-time DC (POTDC) for sum-rate maximization in two-way AF MIMO relaying. , 2012, , .		3
196	Robust multi-dimensional model order estimation in the presence of brief sensor failures. , 2013, , .		3
197	Tensor subspace tracking via Kronecker structured projections (TeTraKron). , 2013, , .		3
198	Asymptotic performance analysis of esprit-type algorithms for circular and strictly non-circular sources with spatial smoothing. , 2014, , .		3

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199	High resolution direction finding from rectangular higher order cumulant matrices: The rectangular 2Q-music algorithms. , 2014, , .		3
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