## Martin Haardt

List of Publications by Year in descending order

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289 papers 9,599 citations

35 h-index 85 g-index

289 all docs

289 docs citations

times ranked

289

4644 citing authors

#	Article	IF	CITATIONS
1	Kronecker Product-Based Space-Time Block Codes. IEEE Wireless Communications Letters, 2022, 11, 386-390.	5.0	3
2	Constrained Cramér–Rao bounds for reconstruction problems formulated as coupled canonical polyadic decompositions. Signal Processing, 2022, 198, 108573.	3.7	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.	<b>5.</b> 3	3
6	Reweighted Low-Rank Factorization With Deep Prior for Image Restoration. IEEE Transactions on Signal Processing, 2022, 70, 3514-3529.	5 <b>.</b> 3	2
7	Tensor-Based Near-Field Localization Using Massive Antenna Arrays. IEEE Transactions on Signal Processing, 2021, 69, 5830-5845.	<b>5.</b> 3	7
8	Using the Multi-Linear Rank-( <i>L<sub>r</sub> </i> , <i>L<sub>r</sub> </i> , 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.	4.2	3
9	Conditional and Unconditional Cramér-Rao Bounds for Near-Field Localization in Bistatic MIMO Radar Systems. IEEE Transactions on Signal Processing, 2021, 69, 3220-3234.	5 <b>.</b> 3	9
10	TRICE: A Channel Estimation Framework for RIS-Aided Millimeter-Wave MIMO Systems. IEEE Signal Processing Letters, 2021, 28, 513-517.	3 <b>.</b> 6	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.	10.8	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.	10.8	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.	3.6	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

#	Article	IF	Citations
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.	3.7	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.	4.2	4
23	Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. IEEE Signal Processing Letters, 2020, 27, 1420-1424.	3.6	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.	2.8	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.	4.2	10
32	Maximum Likelihood Estimation of a Low-Rank Probability Mass Tensor From Partial Observations. IEEE Signal Processing Letters, 2019, 26, 1551-1555.	3.6	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.	3.6	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.	5 <b>.</b> 6	2
36	Estimation of a Low-Rank Probability-Tensor from Sample Sub-Tensors via Joint Factorization Minimizing the Kullback-Leibler Divergence. , 2019, , .		4

#	Article	IF	CITATIONS
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.	2.5	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.	5.6	1
52	Performance Analysis of the Gaussian Quasi-Maximum Likelihood Approach for Independent Vector Analysis. IEEE Transactions on Signal Processing, 2018, 66, 5000-5013.	5.3	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.	5.3	42
54	Efficient hybrid space-ground precoding techniques for multi-beam satellite systems. , 2017, , .		6

#	Article	IF	Citations
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.	3.6	35
58	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
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.	4.6	2
62	Higher order direction finding from rectangular cumulant matrices: The rectangular <mml:math altimg="si0080.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>q</mml:mi></mml:mrow></mml:math> -MUSIC algorithms. Signal Processing, 2017, 133, 240-249.	3.7	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, , .		O
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.		O
72	Analytical performance analysis of the Semi-Algebraic framework for approximate CP decompositions via Simultaneous matrix diagonalizations (SECSI)., 2017,,.		0

#	Article	IF	Citations
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.	5.3	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. , $2016, \ldots$		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.	5.3	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.	0.5	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

#	Article	IF	CITATIONS
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. , $2016, \ldots$		1
95	Low rank approximation based hybrid precoding schemes for multi-carrier single-user massive MIMO systems. , 2016, , .		24
96	Deterministic Cramér-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
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.	5.3	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.	3.7	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 Cramér-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.	3.6	12

#	Article	lF	Citations
109	Distributed beamforming for cooperative networks with widely-linear processing at the relays and the receiver. , $2015,  ,  .$		O
110	Energy Efficient Two-Way Non-Regenerative Relaying for Relays with Multiple Antennas. IEEE Signal Processing Letters, 2015, 22, 1079-1083.	3.6	28
111	Interference Neutralization for Non-Regenerative Two-Way Relaying Networksâ€"Part I: Feasibility. IEEE Transactions on Signal Processing, 2015, 63, 4544-4556.	5.3	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.	5.3	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.	1.3	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.	5.3	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.	4.7	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.	5.3	78
123	Adaptive Widely Linear Reduced-Rank Beamforming Based on Joint Iterative Optimization. IEEE Signal Processing Letters, 2014, 21, 265-269.	3.6	30
124	High resolution direction finding from rectangular higher order cumulant matrices: The rectangular 2Q-music algorithms. , 2014, , .		3
125	Overview and comparison of onâ€ground and onâ€board beamforming techniques in mobile satellite service applications. International Journal of Satellite Communications and Networking, 2014, 32, 291-308.	1.8	29
126	Tensor-based algorithms for learning multidimensional separable dictionaries. , 2014, , .		38

#	Article	lF	Citations
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.	4.2	168
130	Multi-Branch Tomlinson-Harashima Precoding Design for MU-MIMO Systems: Theory and Algorithms. IEEE Transactions on Communications, 2014, 62, 939-951.	7.8	56
131	An Efficient Transmission Strategy for the Multicarrier Multiuser MIMO Downlink. IEEE Transactions on Vehicular Technology, 2014, 63, 628-642.	6.3	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, .	1.7	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, .	1.7	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.	1.5	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.	5.3	19
144	Sum-Rate Maximization With Minimum Power Consumption for MIMO DF Two-Way Relayingâ€" Part II: Network Optimization. IEEE Transactions on Signal Processing, 2013, 61, 3578-3591.	5.3	14

#	Article	IF	Citations
145	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
146	A semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalizations (SECSI). Signal Processing, 2013, 93, 2722-2738.	3.7	58
147	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
148	Adaptive Frequency-Domain Group-Based Shrinkage Estimators for UWB Systems. IEEE Transactions on Vehicular Technology, 2013, 62, 3639-3652.	6.3	1
149	Robust multi-dimensional model order estimation in the presence of brief sensor failures. , $2013, \ldots$		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. IEEE Transactions on Communications, 2013, 61, 4232-4242.	7.8	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. Signal Processing, 2013, 93, 641-651.	3.7	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

#	Article	IF	CITATIONS
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.	5.3	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.	5.3	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.	5.3	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.	5.3	64
180	Impact of synchronization errors on Alamouti-STBC-based cooperative MIMO schemes., 2012,,.		1

#	Article	IF	CITATIONS
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.	3.4	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.	3.7	32
185	Efficient relay sharing (EReSH) between multiple operators in amplify-and-forward relaying systems. , 2011, , .		O
186	Knowledge-aided direction finding based on Unitary ESPRIT., 2011,,.		7
187	Robust adaptive beamforming using worst-case optimization with constrained constant modulus criterion. , $2011,  ,  .$		O
188	A joint clustering and routing scheme to maximize link performance in cooperative MIMO ad-hoc networks. , $2011, \dots$		3
189	Coordinated beamforming for MIMO interference relay channel with multiple stream transmission. , 2011, , .		O
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.	5 <b>.</b> 3	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.	3.4	4
196	Recent advances in multiuser MIMO systems. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	1
197	Multi-dimensional model order selection. Eurasip Journal on Advances in Signal Processing, $2011, 2011,$	1.7	53
198	Non-data-aided adaptive beamforming algorithm based on the Widely Linear Auxiliary Vector Filter. , $2011,\ ,\ .$		6

#	Article	IF	Citations
199	Analytical performance assessment of 1-D Structured Least Squares. , 2011, , .		6
200	Beamforming design for multi-user two-way relaying with MIMO amplify and forward relays., 2011,,.		12
201	Adaptive frequency-domain biased estimation algorithms with automatic adjustment of shrinkage factors. , $2011, \ldots$		2
202	Tensor-based semi-blind channel estimation for MIMO OSTBC-coded systems. , 2011, , .		0
203	Analytical performance assessment for multi-dimensional Tensor-ESPRIT-type parameter estimation algorithms. , 2010, , .		8
204	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
205	Using a new structured joint congruence (STJOCO) transformation of Hermitian matrices for precoding in multi-user MIMO systems. , 2010, , .		11
206	A low-complexity relay transmit strategy for two-way relaying with MIMO amplify and forward relays. , 2010, , .		13
207	Adaptive reduced-rank interference suppression for DS-UWB systems based on the Widely Linear Multistage Wiener Filter. , 2010, , .		2
208	Robust R-D parameter estimation via closed-form PARAFAC in Kronecker colored environments. , 2010, , .		4
209	An iterative Widely Linear interference suppression algorithm based on Auxiliary Vector Filtering. , 2010, , .		4
210	Blind estimation of SIMO channels using a tensor-based subspace method., 2010,,.		10
211	Reduced-rank DOA estimation based on joint iterative subspace recursive optimization and grid search. , 2010, , .		6
212	Flexible Coordinated Beamforming (FlexCoBF) algorithm for the downlink of multi-user MIMO systems. , 2010, , .		7
213	Tensor-Based Spatial Smoothing (TB-SS) Using Multiple Snapshots. IEEE Transactions on Signal Processing, 2010, 58, 2715-2728.	5.3	25
214	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
215	Multi-dimensional PARAFAC2 component analysis of multi-channel EEG data including temporal tracking. , 2010, 2010, 5375-8.		8
216	A digital non-coherent Ultra-Wideband receiver using a Soft-Limiter for Narrowband Interference Suppression. , 2010, , .		0

#	Article	IF	CITATIONS
217	Time-Hopping M-Walsh UWB transmission scheme for a one-bit non-coherent receiver. , 2010, , .		O
218	Self-Organizing Network with Intelligent Relaying (SONIR)., 2010,,.		3
219	Robust R-D parameter estimation via closed-form PARAFAC. , 2010, , .		21
220	Iterative Sequential GSVD (I-S-GSVD) based prewhitening for multidimensional HOSVD based subspace estimation without knowledge of the noise covariance information. , 2010, , .		5
221	Single Snapshot R-D Unitary Tensor-ESPRIT Using an Augmentation of the Tensor Order. , 2009, , .		6
222	Multidimensional Unitary Tensor-ESPRIT for non-circular sources., 2009,,.		6
223	Tensor-based channel estimation (TENCE) for two-way relaying with multiple antennas and spatial reuse. , 2009, , .		39
224	Performance of PPM-Based Non-Coherent Impulse Radio UWB Systems using Sparse Codes in the Presence of Multi-User Interference., 2009,,.		6
225	Achievable throughput approximation for RBD precoding at high SNRS. , 2009, , .		4
226	Non-Coherent UWB Communications. Frequenz, 2009, 63, .	0.9	4
227	Channel Modeling for Multiple Satellite Broadcasting Systems. IEEE Transactions on Broadcasting, 2009, 55, 705-718.	3.2	22
228	Single Snapshot Spatial Smoothing With Improved Effective Array Aperture. IEEE Signal Processing Letters, 2009, 16, 505-508.	3.6	50
229	Multi-dimensional space-time-frequency component analysis of event related EEG data using closed-form PARAFAC., 2009, , .		27
230	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
231	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
232	A Digital Code Matched Filter-based non-coherent receiver for low data rate TH-PPM-UWB systems in the presence of MUI. , 2009, , .		5
233	Investigation of the baseline wander effect on Gbps wireless infrared system employing $8B10B$ coding., $2009$ ,,.		1
234	Analytical performance evaluation for HOSVD-based parameter estimation schemes., 2009,,.		16

#	Article	IF	Citations
235	Near-far robustness and optimal power allocation for two-way relaying with MIMO amplify and forward relays., 2009,,.		2
236	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
237	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
238	Generalized Design of Multi-User MIMO Precoding Matrices. IEEE Transactions on Wireless Communications, 2008, 7, 953-961.	9.2	246
239	Channel state modeling for single and multiple satellite broadcasting systems. , 2008, , .		2
240	A closed-form solution for multilinear PARAFAC decompositions. , 2008, , .		25
241	Measurement based satellite to outdoor channel modeling for multiple satellite systems. , 2008, , .		2
242	Quality of service oriented spatial processing in the Manhattan grid. , 2008, , .		1
243	Receive antenna impact on spatio-temporal availability in satellite-to-indoor broadcasting. , 2008, , .		1
244	Robust methods based on the hosvd for estimating the model order in PARAFAC models. , 2008, , .		22
245	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
246	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
247	Blind adaptive reduced-rank estimation based on the constant modulus criterion and diversity combined decimation and interpolation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
248	Tensor-based framework for the prediction of frequency-selective time-variant MIMO channels. , 2008, , .		11
249	Channel representative interference cancellation (CRIC) for MIMO multi-hop systems in the Manhattan scenario. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	1
250	Adaptive Codebooks for Efficient Feedback Reduction in Cooperative Antenna Systems. , 2008, , .		1
251	Blind Adaptive Constrained Reduced-Rank Estimation Algorithms for Constant Modulus Signals Applied to CDMA Interference Suppression. , 2007, , .		0
252	Enhanced Model Order Estimation using Higher-Order Arrays., 2007,,.		25

#	Article	IF	Citations
253	Blind Linear Interference Suppression Based on Reduced-Rank Least-Squares Constrained Constant Modulus Design for DS-CDMA Systems. , 2007, , .		2
254	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
255	Low-Complexity Space–Time–Frequency Scheduling for MIMO Systems With SDMA. IEEE Transactions on Vehicular Technology, 2007, 56, 2775-2784.	6.3	59
256	Tensor-Structure Structured Least Squares (TS-SLS) to Improve the Performance of Multi-Dimensional Esprit-Type Algorithms. , 2007, , .		7
257	Spatio-Temporal Availability in Satellite-to-Indoor Broadcasting. , 2007, , .		1
258	Low-Complexity and Energy Efficient Non-Coherent Receivers for UWB Communications., 2007,,.		8
259	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
260	Linear MMSE Multi-User MIMO Downlink Precoding for Users with Multiple Antennas. , 2006, , .		57
261	Model Order Selection for Short Data: An Exponential Fitting Test (EFT). Eurasip Journal on Advances in Signal Processing, 2006, 2007, 1.	1.7	50
262	Higher Order SVD Based Subspace Estimation to Improve Multi-Dimensional Parameter Estimation Algorithms. , 2006, , .		8
263	Linear and Dirty-Paper Techniques for the Multiuser MIMO Downlink. , 2005, , 209-243.		4
264	An introduction to the multi-user MIMO downlink. , 2004, 42, 60-67.		691
265	Zero-Forcing Methods for Downlink Spatial Multiplexing in Multiuser MIMO Channels. IEEE Transactions on Signal Processing, 2004, 52, 461-471.	5.3	2,566
266	Smart antenna technologies for future wireless systems: trends and challenges., 2004, 42, 90-97.		218
267	Smart antennas for wireless communications beyond the third generation. Computer Communications, 2003, 26, 41-45.	5.1	13
268	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
269	Analysis of MIMO channel measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 85-89.	0.4	0
270	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

#	Article	IF	Citations
271	The future of wireless communications beyond the third generation. Computer Networks, 2001, 37, 83-92.	5.1	27
272	Smart antennas for UTRA TDD. European Transactions on Telecommunications, 2001, 12, 393-406.	1.2	6
273	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
274	Visions of a Wireless World. Frequenz, 2001, 55, .	0.9	2
275	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
276	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
277	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
278	The TD-CDMA based UTRA TDD mode. IEEE Journal on Selected Areas in Communications, 2000, 18, 1375-1385.	14.0	140
279	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
280	Title is missing!. Wireless Personal Communications, 1999, 11, 109-129.	2.7	32
281	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
281	Schur algorithms for joint-detection in TD-CDMA based mobile radio systems. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.	2.5	18
	Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal		
282	Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.  Simultaneous Schur decomposition of several nonsymmetric matrices to achieve automatic pairing in multidimensional harmonic retrieval problems. IEEE Transactions on Signal Processing, 1998, 46,	5.3	24
282	Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.  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.  Structured least squares to improve the performance of ESPRIT-type algorithms. IEEE Transactions on	5.3 5.3	24
282 283 284	Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.  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.  Structured least squares to improve the performance of ESPRIT-type algorithms. IEEE Transactions on Signal Processing, 1997, 45, 792-799.  Closed-form 2-D angle estimation with rectangular arrays in element space or beamspace via unitary	5.3 5.3 5.3	24 186 37
282 283 284 285	Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.  Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.  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.  Structured least squares to improve the performance of ESPRIT-type algorithms. IEEE Transactions on Signal Processing, 1997, 45, 792-799.  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.  Performance analysis of closed-form, ESPRIT based 2-D angle estimator for rectangular arrays. IEEE	<ul><li>5.3</li><li>5.3</li><li>5.3</li></ul>	24 186 37 449