

Qingjiang Shi

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,490
citations

201575

27
h-index

95218

68
g-index

102
all docs

102
docs citations

102
times ranked

3908
citing authors

#	ARTICLE	IF	CITATIONS
1	An Iteratively Weighted MMSE Approach to Distributed Sum-Utility Maximization for a MIMO Interfering Broadcast Channel. IEEE Transactions on Signal Processing, 2011, 59, 4331-4340.	3.2	1,290
2	An iteratively weighted MMSE approach to distributed sum-utility maximization for a MIMO interfering broadcast channel. , 2011, , .		589
3	Learning to Optimize: Training Deep Neural Networks for Interference Management. IEEE Transactions on Signal Processing, 2018, 66, 5438-5453.	3.2	512
4	Joint Transmit Beamforming and Receive Power Splitting for MISO SWIPT Systems. IEEE Transactions on Wireless Communications, 2014, 13, 3269-3280.	6.1	448
5	Learning to optimize: Training deep neural networks for wireless resource management. , 2017, , .		202
6	Joint Beamforming and Power Splitting for MISO Interference Channel With SWIPT: An SOCP Relaxation and Decentralized Algorithm. IEEE Transactions on Signal Processing, 2014, 62, 6194-6208.	3.2	174
7	Secure Beamforming for MIMO Broadcasting With Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2015, 14, 2841-2853.	6.1	172
8	Distributed Wireless Sensor Network Localization Via Sequential Greedy Optimization Algorithm. IEEE Transactions on Signal Processing, 2010, 58, 3328-3340.	3.2	163
9	Dual-UAV-Enabled Secure Communications: Joint Trajectory Design and User Scheduling. IEEE Journal on Selected Areas in Communications, 2018, 36, 1972-1985.	9.7	159
10	Mobile element assisted cooperative localization for wireless sensor networks with obstacles. IEEE Transactions on Wireless Communications, 2010, 9, 956-963.	6.1	124
11	Energy Efficiency Optimization for MISO SWIPT Systems With Zero-Forcing Beamforming. IEEE Transactions on Signal Processing, 2016, 64, 842-854.	3.2	115
12	Joint Source-Relay Design for Full-Duplex MIMO AF Relay Systems. IEEE Transactions on Signal Processing, 2016, 64, 6118-6131.	3.2	104
13	Codebook Design for Beam Alignment in Millimeter Wave Communication Systems. IEEE Transactions on Communications, 2017, 65, 4980-4995.	4.9	103
14	Iterative Algorithm Induced Deep-Unfolding Neural Networks: Precoding Design for Multiuser MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1394-1410.	6.1	91
15	Penalty Dual Decomposition Method for Nonsmooth Nonconvex Optimization Part I: Algorithms and Convergence Analysis. IEEE Transactions on Signal Processing, 2020, 68, 4108-4122.	3.2	85
16	Spectral Efficiency Optimization For Millimeter Wave Multiuser MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 455-468.	7.3	77
17	Robust Joint Hybrid Transceiver Design for Millimeter Wave Full-Duplex MIMO Relay Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1199-1215.	6.1	68
18	Efficiency Maximization for UAV-Enabled Mobile Relaying Systems With Laser Charging. IEEE Transactions on Wireless Communications, 2020, 19, 3257-3272.	6.1	66

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19	SR2CNN: Zero-Shot Learning for Signal Recognition. IEEE Transactions on Signal Processing, 2021, 69, 2316-2329.	3.2	58
20	Joint Transceiver Design With Antenna Selection for Large-Scale MU-MIMO mmWave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2085-2096.	9.7	48
21	A New Incremental Optimization Algorithm for ML-Based Source Localization in Sensor Networks. IEEE Signal Processing Letters, 2008, 15, 45-48.	2.1	43
22	SINR Constrained Beamforming for a MIMO Multi-User Downlink System: Algorithms and Convergence Analysis. IEEE Transactions on Signal Processing, 2016, 64, 2920-2933.	3.2	37
23	Efficient Resource Allocation for Relay-Assisted Computation Offloading in Mobile-Edge Computing. IEEE Internet of Things Journal, 2020, 7, 2452-2468.	5.5	37
24	Time-Frequency Scheduling and Power Optimization for Reliable Multiple UAV Communications. IEEE Access, 2018, 6, 3992-4005.	2.6	32
25	Joint Beamforming and Jamming Design for mmWave Information Surveillance Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1410-1425.	9.7	31
26	Resonant Beam Charging-Powered UAV-Assisted Sensing Data Collection. IEEE Transactions on Vehicular Technology, 2020, 69, 1086-1090.	3.9	29
27	Quantized Federated Learning Under Transmission Delay and Outage Constraints. IEEE Journal on Selected Areas in Communications, 2022, 40, 323-341.	9.7	29
28	Joint Transceiver Design for Full-Duplex Cloud Radio Access Networks With SWIPT. IEEE Transactions on Wireless Communications, 2017, 16, 5644-5658.	6.1	28
29	Joint Design of Beam Selection and Precoding Matrices for mmWave MU-MIMO Systems Relying on Lens Antenna Arrays. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 313-325.	7.3	28
30	Optimized Signal Distortion for PAPR Reduction of OFDM Signals With IFFT/FFT Complexity Via ADMM Approaches. IEEE Transactions on Signal Processing, 2019, 67, 399-414.	3.2	28
31	Joint Transceiver Designs for Full-Duplex K-User MIMO Interference Channel With SWIPT. IEEE Transactions on Communications, 2017, 65, 890-905.	4.9	26
32	Joint Transceiver Design for Secure Downlink Communications Over an Amplify-and-Forward MIMO Relay. IEEE Transactions on Communications, 2017, 65, 3691-3704.	4.9	25
33	Massive MIMO for Distributed Detection With Transceiver Impairments. IEEE Transactions on Vehicular Technology, 2018, 67, 604-617.	3.9	25
34	SSRCNN: A Semi-Supervised Learning Framework for Signal Recognition. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 780-789.	4.9	24
35	Inexact Block Coordinate Descent Methods for Symmetric Nonnegative Matrix Factorization. IEEE Transactions on Signal Processing, 2017, 65, 5995-6008.	3.2	22
36	Towards Flexible Sparsity-Aware Modeling: Automatic Tensor Rank Learning Using the Generalized Hyperbolic Prior. IEEE Transactions on Signal Processing, 2022, 70, 1834-1849.	3.2	20

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37	Decoding Binary Linear Codes Using Penalty Dual Decomposition Method. IEEE Communications Letters, 2019, 23, 958-962.	2.5	18
38	Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. IEEE Transactions on Power Systems, 2020, 35, 2176-2189.	4.6	17
39	Penalty Dual Decomposition Method for Nonsmooth Nonconvex Optimization—Part II: Applications. IEEE Transactions on Signal Processing, 2020, 68, 4242-4257.	3.2	17
40	On the Optimization Model for Multi-Hop Information Transmission and Energy Transfer in TDMA-Based Wireless Sensor Networks. IEEE Communications Letters, 2017, 21, 1095-1098.	2.5	15
41	Anchor-Free Correlated Topic Modeling. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 1056-1071.	9.7	14
42	Towards Overfitting Avoidance: Tuning-Free Tensor-Aided Multi-User Channel Estimation for 3D Massive MIMO Communications. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 832-846.	7.3	14
43	Distributed source localization via projection onto the nearest local minimum. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	13
44	Normalized Incremental Subgradient Algorithm and Its Application. IEEE Transactions on Signal Processing, 2009, 57, 3759-3774.	3.2	13
45	Joint Transmit Precoding and Receive Antenna Selection for Uplink Multiuser Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 5249-5260.	4.9	13
46	An ADMM-Based Approach to Robust Array Pattern Synthesis. IEEE Signal Processing Letters, 2019, 26, 898-902.	2.1	13
47	Energy Utilization Efficient Frame Structure for Energy Harvesting Cognitive Radio Networks. IEEE Wireless Communications Letters, 2016, 5, 488-491.	3.2	12
48	Power Allocation for Energy Efficient Optimization of Distributed MIMO System With Beamforming. IEEE Transactions on Vehicular Technology, 2019, 68, 8966-8981.	3.9	12
49	Efficient Resource Allocation for Multi-UAV Communication Against Adjacent and Co-Channel Interference. IEEE Transactions on Vehicular Technology, 2021, 70, 10222-10235.	3.9	12
50	Joint Cooperative Computation and Interactive Communication for Relay-Assisted Mobile Edge Computing. , 2018, , .		11
51	Joint Optimization of Dimension Assignment and Compression in Distributed Estimation Fusion. IEEE Transactions on Signal Processing, 2019, 67, 2453-2468.	3.2	10
52	Anomaly detection for cellular networks using big data analytics. IET Communications, 2019, 13, 3351-3359.	1.5	10
53	Human-Perception-Oriented Pseudo Analog Video Transmissions With Deep Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 9896-9909.	3.9	10
54	Efficient QP-ADMM Decoder for Binary LDPC Codes and Its Performance Analysis. IEEE Transactions on Signal Processing, 2020, 68, 503-518.	3.2	10

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55	Secure Hybrid A/D Beamforming for Hardware-Efficient Large-Scale Multiple-Antenna SWIPT Systems. IEEE Transactions on Communications, 2020, 68, 6141-6156.	4.9	9
56	Mobile anchor assisted node localization for wireless sensor networks. , 2009, , .		8
57	Cost-Efficient Cellular Networks Powered by Micro-Grids. IEEE Transactions on Wireless Communications, 2017, 16, 6047-6061.	6.1	7
58	Joint Transmit Beamforming and Antenna Selection in MIMO Systems. IEEE Wireless Communications Letters, 2018, 7, 716-719.	3.2	7
59	Joint Trajectory and User Scheduling Optimization for Dual-UAV Enabled Secure Communications. , 2018, , .		7
60	Robust trajectory planning for UAV communication systems in the presence of jammers. Chinese Journal of Aeronautics, 2022, 35, 265-274.	2.8	7
61	An Efficient Learning Framework for Federated XGBoost Using Secret Sharing and Distributed Optimization. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-28.	2.9	7
62	Joint Transceiver Optimization of MIMO SWIPT Systems for Harvested Power Maximization. IEEE Signal Processing Letters, 2017, 24, 1557-1561.	2.1	5
63	Joint Mode Selection and Transceiver Design for Device-to-Device Communications Underlying Multi-User MIMO Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 3312-3328.	6.1	5
64	Low-Rate Non-Intrusive Appliance Load Monitoring Based on Graph Signal Processing. , 2019, , .		5
65	Joint Channel Assignment And Power Allocation for Multi-UAVs Communication Systems. , 2020, , .		5
66	Globally Convergent Gradient Projection Type Algorithms for a Class of Robust Hypothesis Testings. IEEE Transactions on Signal Processing, 2021, 69, 1828-1841.	3.2	5
67	High-Speed User-Centric Beampattern Synthesis via Frequency Diverse Array. IEEE Transactions on Signal Processing, 2021, 69, 1226-1241.	3.2	5
68	Sensor Network Localization via Nondifferentiable Optimization. , 2008, , .		4
69	Energy-efficient precoding design for cloud radio access networks. IET Communications, 2017, 11, 1864-1870.	1.5	4
70	Non-Intrusive Load Disaggregation Using Semi-Supervised Learning Method. , 2019, , .		4
71	Closed-Form Solution for Optimal Compression Matrix Design in Distributed Estimation. IEEE Access, 2019, 7, 5045-5056.	2.6	4
72	Distributed Soft Clustering Algorithm for IoT Based on Finite Time Average Consensus. IEEE Internet of Things Journal, 2021, 8, 16096-16107.	5.5	4

#	ARTICLE	IF	CITATIONS
73	Learning-Based Massive Beamforming. , 2020, , .		4
74	Decentralized Linear MMSE Equalizer Under Colored Noise for Massive MIMO Systems. , 2021, , .		4
75	Joint precoding and antenna selection for large-scale MU-MIMO uplink systems. , 2016, , .		3
76	Energy-Efficient Resource Allocation for Latency-Sensitive Mobile Edge Computing. , 2018, , .		3
77	Block-Diagonal Zero-Forcing Beamforming for Weighted Sum-Rate Maximization in Multi-User Massive MIMO Systems. , 2020, , .		3
78	Distributed Energy Efficient Cross-layer Optimization for Multihop MIMO Cognitive Radio Networks with Primary User Rate Protection. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	2
79	Robust hypothesis testing for asymmetric nominal densities under a relative entropy tolerance. Science China Mathematics, 2018, 61, 1851-1880.	0.8	2
80	Sequence Set Design with Min-Max Criterion Using Majorization-Minimization. , 2019, , .		2
81	Robust transceiver design based on switched preprocessing for K â€œpair MIMO interference channels. IET Communications, 2020, 14, 300-312.	1.5	2
82	Semi-Supervised Learning For Signal Recognition With Sparsity And Robust Promotion. , 2021, , .		2
83	Robust Federated Learning in Wireless Channels with Transmission Outage and Quantization Errors. , 2021, , .		2
84	Anti-Reactive-Jamming Wireless System: A Strategy of â€œMaskingâ€œ, 2021, , .		2
85	Joint Node Activation, Beamforming and Phase-Shifting Control in IoT Sensor Network Assisted by Reconfigurable Intelligent Surface. IEEE Transactions on Wireless Communications, 2022, 21, 9325-9340.	6.1	2
86	A compact hairpin bandpass filter using multilayer stripline folded quarterâ€œwavelength resonators. Microwave and Optical Technology Letters, 2012, 54, 2627-2629.	0.9	1
87	Modular and Asynchronous Backpressure in Multihop Networks: Model and Optimization. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	1
88	Joint device-to-device transmission activation and transceiver design for sum-rate maximization in MIMO interfering channels. , 2016, , .		1
89	Efficient Genetic-Based Detection Algorithm for Large-Scale MIMO Systems. , 2019, , .		1
90	A Gradient-Based Method for Robust Sensor Selection in Hypothesis Testing. Sensors, 2020, 20, 697.	2.1	1

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91	Joint Dimension Assignment and Compression for Deterministic Parameter Vector Estimation in Distributed Multisensor Networks. IEEE Transactions on Signal Processing, 2021, 69, 2114-2128.	3.2	1
92	Level set model for water region segmentation in synthetic aperture radar images. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	1
93	Digital Twin-Aided Learning to Enable Robust Beamforming: Limited Feedback Meets Deep Generative Models. , 2021, , .		1
94	The CRLB Analysis for Target Localization Based on UAV Swarms. , 2021, , .		1
95	A simple iterative algorithm for range-based localization. , 2009, , .		0
96	Improving capacity for physical network coding with lattice strategies in two-way fading channels. IET Communications, 2017, 11, 1123-1131.	1.5	0
97	Power-efficient Beam Pattern Synthesis via Sequential Outer Approximation Procedure. , 2019, , .		0
98	Robust TOA-Based Source Self-Positioning With Clock Imperfection. , 2020, , .		0
99	Consensus-Based Distributed Clustering for IoT. , 2020, , .		0
100	Efficient Algorithms for Rotation Averaging Problems. Proceedings of the ACM on Computer Graphics and Interactive Techniques, 2021, 4, 1-16.	1.0	0
101	Outage behaviour and SCK-based power allocation for analogue network coding protocol in cooperative networks. IET Communications, 2018, 12, 922-931.	1.5	0
102	Bayesian sparse representation model for SAR image classification. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	0