

# Shahram ShahbazPanahi

## List of Publications by Year in descending order

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137  
papers

3,111  
citations

304368

22  
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174990

52  
g-index

137  
all docs

137  
docs citations

137  
times ranked

1797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Downlink Resource Allocation in Multiuser Cell-Free MIMO Networks With User-Centric Clustering. IEEE Transactions on Wireless Communications, 2022, 21, 1482-1497.	6.1	31
2	Distributed Resource Allocation Optimization for User-Centric Cell-Free MIMO Networks. IEEE Transactions on Wireless Communications, 2022, 21, 3099-3115.	6.1	24
3	Analysis and Design of Distributed MIMO Networks With a Wireless Fronthaul. IEEE Transactions on Communications, 2022, 70, 980-998.	4.9	0
4	User-Centric Cell-Free Massive MIMO Networks: A Survey of Opportunities, Challenges and Solutions. IEEE Communications Surveys and Tutorials, 2022, 24, 611-652.	24.8	115
5	Low-Complexity ADMM-Based Algorithm for Robust Multi-Group Multicast Beamforming in Large-Scale Systems. IEEE Transactions on Signal Processing, 2022, 70, 2046-2061.	3.2	6
6	Deep Generative Models for Downlink Channel Estimation in FDD Massive MIMO Systems. IEEE Transactions on Signal Processing, 2022, 70, 2000-2014.	3.2	3
7	Power-Optimal Distributed Beamforming for Multi-Carrier Asynchronous Bidirectional Relay Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 114-129.	1.6	2
8	RWP+: A New Random Waypoint Model for High-Speed Mobility. IEEE Communications Letters, 2021, 25, 3748-3752.	2.5	3
9	Resource Allocation and Scheduling in Non-coherent User-centric Cell-free MIMO. , 2021, , .		8
10	Optimizing RRH Placement Under a Noise-Limited Point-to-Point Wireless Backhaul. , 2021, , .		2
11	Admm-Based Fast Algorithm for Robust Multi-Group Multicast Beamforming. , 2021, , .		1
12	Joint Power Allocation and Distributed Equalization Design for OFDM-Based Filter-and-Forward Two-Way Multi-Relay Networks. IEEE Transactions on Signal Processing, 2021, 69, 4652-4668.	3.2	1
13	Finite-Alphabet Symbol-Level Multiuser Precoding for Massive MU-MIMO Downlink. IEEE Transactions on Signal Processing, 2021, 69, 5595-5610.	3.2	3
14	Hybrid Analog and Digital Beamforming Design for Channel Estimation in Correlated Massive MIMO Systems. IEEE Transactions on Signal Processing, 2021, 69, 5784-5800.	3.2	12
15	Statistical Analysis of Downlink Zero-Forcing Beamforming. IEEE Wireless Communications Letters, 2020, 9, 1965-1969.	3.2	5
16	Distributed Equalization and Power Allocation For Multi-Carrier Bidirectional Filter-and-Forward Relay Networks. , 2020, , .		0
17	Joint Power Allocation and Access Point Selection for Cell-free Massive MIMO. , 2020, , .		9
18	One-Bit Quantized Constructive Interference Based Precoding for Massive Multiuser MIMO Downlink. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
19	MMSE-Based Channel Estimation for Hybrid Beamforming Massive MIMO with Correlated Channels. , 2020, , .		4
20	Coarse Trajectory Design for Energy Minimization in UAV-Enabled. IEEE Transactions on Vehicular Technology, 2020, 69, 9483-9496.	3.9	68
21	Proof of the Equivalency of MSE-Constrained and Rate-Constrained Power Optimization Approaches to Distributed Bi-Directional Beamforming. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 460-478.	1.6	1
22	On Total Transmission Power Minimization Approach to Decentralized Beamforming in Single-Carrier Asynchronous Bidirectional Relay-Assisted Communication Networks. IEEE Access, 2019, 7, 30966-30979.	2.6	5
23	Popularity Tracking for Proactive Content Caching with Dynamic Factor Analysis. , 2019, , .		8
24	A Worst-Case Performance Optimization Based Design Approach to Robust Symbol-Level Precoding for Downlink MU-MIMO. , 2019, , .		4
25	Resource Allocation for Two-Way Active Channels with Unequal Subchannel Noise Powers. , 2019, , .		0
26	Equivalency of MSE- and Rate-Constrained Power Optimization Methods for Distributed Beamforming. , 2019, , .		0
27	Characterization of the MSE Region under a Total Power Budget for Asynchronous Two-Way Relay Networks. , 2019, , .		0
28	Joint Power Allocation and Distributed Beamforming Design for Multi-Carrier Asynchronous Two-Way Relay Networks. , 2019, , .		1
29	Semi-Blind Time-Domain Channel Estimation for Frequency-Selective Multiuser Massive MIMO Systems. IEEE Transactions on Communications, 2019, 67, 1045-1058.	4.9	13
30	A Novel Spatio-Temporal Frequency-Domain Imaging Technique for Two-Layer Materials Using Ultrasonic Arrays. IEEE Access, 2018, 6, 8977-8989.	2.6	0
31	Max-SNR Opportunistic Routing for Large-Scale Energy Harvesting Sensor Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 506-516.	3.5	22
32	Dynamic QoS-Aware Resource Assignment in Cloud-Based Content-Delivery Networks. IEEE Access, 2018, 6, 2298-2309.	2.6	13
33	Recent advances in network beamforming. , 2018, , 403-477.		2
34	On RRH Placement for Multi-User Distributed Massive MIMO Systems. IEEE Access, 2018, 6, 70597-70614.	2.6	8
35	Multiple Peer-to-Peer Bidirectional Cooperative Communications Using Massive MIMO Relays. , 2018, , .		1
36	Semi-Blind Channel Estimation for Frequency-Selective Massive MIMO Systems. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
37	Distributed Massive MIMO Systems With Non-Reciprocal Channels: Impacts and Robust Beamforming. IEEE Transactions on Communications, 2018, 66, 5261-5277.	4.9	15
38	Stochastic QoE-Aware Optimization in Cloud-Based Content Delivery Networks. IEEE Access, 2018, 6, 32662-32672.	2.6	4
39	Asynchronous Two-Way MIMO Relaying: A Multi-Relay Scenario. IEEE Transactions on Wireless Communications, 2018, 17, 4270-4287.	6.1	7
40	Throughput Maximization with an Energy Outage Constraint for Energy Harvesting Links. , 2017, , .		3
41	On Sum-Rate Maximization Approach to Network Beamforming and Power Allocation for Asynchronous Single-Carrier Two-Way Relay Networks. IEEE Access, 2017, 5, 13699-13711.	2.6	11
42	A Two-Way Network Beamforming Approach Based on Total Power Minimization With Symmetric Relay Beamforming Matrices. IEEE Access, 2017, 5, 12458-12474.	2.6	8
43	Jointly Optimal Pre- and Post-Channel Equalization and Distributed Beamforming in Asynchronous Bidirectional Relay Networks. IEEE Transactions on Signal Processing, 2017, 65, 4593-4608.	3.2	13
44	MDP modeling of resource provisioning in virtualized content-delivery networks. , 2017, , .		3
45	Network beamforming for asynchronous MIMO two-way relay networks. , 2017, , .		0
46	Opportunistic Routing in Large-Scale Energy Harvesting Sensor Networks. , 2016, , .		4
47	The Impact of Hardware Calibration Errors on the Performance of Massive MIMO Systems. , 2016, , .		3
48	Large Scale Energy Harvesting Sensor Networks with Applications in Smart Cities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 215-226.	0.2	2
49	Optimal Network Beamforming in Collaborative Relay Networks With Centralized Energy Harvesting. IEEE Transactions on Signal Processing, 2016, 64, 6005-6016.	3.2	9
50	Pre-Channel Equalization and Distributed Beamforming in Asynchronous Single-Carrier Bi-Directional Relay Networks. IEEE Transactions on Signal Processing, 2016, 64, 3968-3983.	3.2	14
51	Sum-Rate Maximization for Two-Way Active Channels. IEEE Transactions on Signal Processing, 2016, 64, 1369-1382.	3.2	5
52	Sparse Signal Recovery Based Imaging in the Presence of Mode Conversion With Application to Non-Destructive Testing. IEEE Transactions on Signal Processing, 2016, 64, 1352-1364.	3.2	15
53	Joint Subchannel Pairing and Power Allocation in Multichannel MABC-Based Two-Way Relaying. IEEE Transactions on Wireless Communications, 2016, 15, 620-632.	6.1	6
54	Total power minimization for two-way networks with multi-antenna relays. , 2015, , .		0

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55	Jointly optimal pre- and post-channel equalization and network beamforming in asynchronous two-way relay networks. , 2015, , .		0
56	Symmetric beamforming for multi-antenna two-way relay networks. , 2015, , .		1
57	Sum-rate maximization for asynchronous two-way relay networks. , 2015, , .		0
58	Jointly optimal distributed beamforming and power control in asynchronous two-way relay networks. , 2015, , .		2
59	Joint Spectrum Sharing and Power Allocation for OFDM-Based Two-Way Relaying. IEEE Transactions on Wireless Communications, 2015, 14, 3294-3308.	6.1	14
60	On Achievable SNR Region for Multi-User Multi-Carrier Asynchronous Bidirectional Relay Networks. IEEE Transactions on Wireless Communications, 2015, 14, 3219-3230.	6.1	13
61	A New Model for Array Spatial Signature for Two-Layer Imaging With Applications to Nondestructive Testing Using Ultrasonic Arrays. IEEE Transactions on Signal Processing, 2015, 63, 2464-2475.	3.2	6
62	Sum-Rate Optimal Network Beamforming and Subcarrier Power Allocation for Multi-Carrier Asynchronous Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2015, 63, 4129-4143.	3.2	23
63	Optimal Resource Sharing and Network Beamforming in Multi-Carrier Bidirectional Relay Networks. IEEE Transactions on Signal Processing, 2015, 63, 6354-6367.	3.2	6
64	Optimal spectrum leasing and network beamforming for two-way relay networks. , 2014, , .		0
65	Energy harvesting for relay-assisted communications. , 2014, , .		3
66	Multi-layer ultrasonic imaging for non-destructive testing applications. , 2014, , .		0
67	Joint pairing and power allocation optimization in multichannel MABC-based two-way relaying. , 2014, , .		1
68	Single-Carrier Equalization for Asynchronous Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2014, 62, 5793-5808.	3.2	70
69	Achievable SNR and rate regions for OFDM-based asynchronous two-way relay networks. , 2014, , .		3
70	Optimal resource sharing and network beamforming for bidirectional relay networks. , 2014, , .		1
71	Optimal power allocation and network beamforming for OFDM-based relay networks. , 2014, , .		1
72	Ultrasonic array imaging for immersion non-destructive testing. , 2014, , .		0

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73	Optimal Spectrum Leasing and Resource Sharing in Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2014, 62, 5030-5045.	3.2	10
74	Mobile distributed compressive sensing for spectrum sensing. , 2014, , .		0
75	Sum-Rate Maximization for Active Channels With Unequal Subchannel Noise Powers. IEEE Transactions on Signal Processing, 2014, 62, 4187-4198.	3.2	12
76	A Distributed Reflector Localization Approach to Ultrasonic Array Imaging in Non-Destructive Testing Applications. IEEE Transactions on Signal Processing, 2014, 62, 3863-3873.	3.2	11
77	Energy Harvesting Cooperative Communication Systems. IEEE Transactions on Wireless Communications, 2014, 13, 6118-6131.	6.1	67
78	Immersion ultrasonic array imaging using a new array spatial signature in different imaging algorithms. , 2014, , .		1
79	Sum-Rate Maximization for Active Channels. IEEE Signal Processing Letters, 2013, 20, 771-774.	2.1	15
80	Multi-Carrier Asynchronous Bi-Directional Relay Networks: Joint Subcarrier Power Allocation and Network Beamforming. IEEE Transactions on Wireless Communications, 2013, 12, 3796-3812.	6.1	31
81	Optimal resource allocation in energy harvesting amplify-and-forward relay networks. , 2013, , .		3
82	Sum-rate maximization for active channels: Unequal noise power over different subchannels. , 2013, , .		2
83	Two-way cooperative communications with statistical channel knowledge. Signal Processing, 2013, 93, 3363-3370.	2.1	5
84	Unified Optimization Framework for Multi-Static Radar Code Design Using Information-Theoretic Criteria. IEEE Transactions on Signal Processing, 2013, 61, 5401-5416.	3.2	82
85	Mobility-Aided Wireless Sensor Network Localization via Semidefinite Programming. IEEE Transactions on Wireless Communications, 2013, 12, 5966-5978.	6.1	41
86	SNR-per-unit-power optimization in relay networks. , 2013, , .		3
87	Corrections to "Achievable Rate Region under Joint Distributed Beamforming and Power Allocation for Two-Way Relay Networks" [Nov 12 4026-4037]. IEEE Transactions on Wireless Communications, 2013, 12, 5373-5373.	6.1	0
88	Multi-relay network design using power-normalized SNR. , 2013, , .		0
89	Experimental results of compressive sensing based imaging in ultrasonic non-destructive testing. , 2013, , .		3
90	Asynchronous bidirectional relay-assisted communications. , 2012, , .		6

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91	Filter-and-forward distributed beamforming for two-way relay networks with frequency selective channels. , 2012, , .		1
92	Distributed beamforming and subcarrier power allocation for OFDM-based asynchronous two-way relay networks. , 2012, , .		4
93	MUSIC-based array imaging in multi-modal ultrasonic non-destructive testing. , 2012, , .		11
94	Performance Tradeoffs in Amplify-and-Forward Bidirectional Network Beamforming. IEEE Transactions on Signal Processing, 2012, 60, 4196-4209.	3.2	38
95	Filter-and-Forward Distributed Beamforming for Two-Way Relay Networks With Frequency Selective Channels. IEEE Transactions on Signal Processing, 2012, 60, 1927-1941.	3.2	43
96	Power control for two-way relay networks under per-node power constraint. , 2012, , .		0
97	A Semi-Closed-Form Solution to Optimal Distributed Beamforming for Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2012, 60, 1511-1516.	3.2	45
98	A total power minimization approach to relay selection for two-way relay networks. , 2012, , .		6
99	Time reversal Bayesian ultrasonic array imaging for non-destructive testing. , 2011, , .		0
100	On the design and performance of TDBC-based bi-directional network beamforming. , 2011, , .		0
101	Joint Relay Selection and Power Allocation for Two-Way Relay Networks. IEEE Signal Processing Letters, 2011, 18, 91-94.	2.1	179
102	A relay selection approach to bidirectional collaborative communications with imperfect CSI. , 2011, , .		0
103	Mobility diversity in mobile wireless networks. , 2011, , .		4
104	Capacity maximization for distributed beamforming in one- and bi-directional relay networks. , 2011, , .		3
105	Distributed network beamforming with a multi-antenna receiver. , 2011, , .		1
106	Achievable rate region and sum-rate maximization for network beamforming for bi-directional relay networks. , 2010, , .		24
107	A semi-closed form solution to the SNR balancing problem of two-way relay network beamforming. , 2010, , .		28
108	Closed-form blind channel estimation in orthogonally coded MIMO-OFDM systems. , 2010, , .		5

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109	Optimal spectrum sharing and power allocation for OFDM-based two-way relaying. , 2010, , .		42
110	Optimal Distributed Beamforming for Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2010, 58, 1238-1250.	3.2	328
111	Joint Receive-Transmit Beamforming for Multi-Antenna Relaying Schemes. IEEE Transactions on Signal Processing, 2010, 58, 4966-4972.	3.2	49
112	Filter-and-forward multiple peer-to-peer beamforming in relay networks with frequency selective channels. , 2010, , .		16
113	Convex Optimization-Based Beamforming. IEEE Signal Processing Magazine, 2010, 27, 62-75.	4.6	447
114	Filter-and-Forward Distributed Beamforming for Two-Way Relay Networks with Frequency Selective Channels. , 2010, , .		8
115	A semi-closed-form solution to optimal decentralized beamforming for two-way relay networks. , 2009, , .		16
116	Optimal network beamforming for bi-directional relay networks. , 2009, , .		10
117	Filter-and-forward distributed beamforming for relay networks in frequency selective fading channels. , 2009, , .		26
118	Distributed peer-to-peer beamforming for multiuser relay networks. , 2009, , .		39
119	Multiple Peer-to-Peer Communications Using a Network of Relays. IEEE Transactions on Signal Processing, 2009, 57, 3053-3062.	3.2	150
120	Joint subcarrier power loading and distributed beamforming in OFDM-based asynchronous relay networks. , 2009, , .		13
121	An SNR balancing approach to two-way relaying. , 2009, , .		6
122	Detecting the number of signals in wireless DS-CDMA networks. IEEE Transactions on Communications, 2008, 56, 1189-1197.	4.9	6
123	Blind and Semiblind Channel and Carrier Frequency-Offset Estimation in Orthogonally Space-Time Block Coded MIMO Systems. IEEE Transactions on Signal Processing, 2008, 56, 702-711.	3.2	10
124	Distributed Beamforming for Relay Networks Based on Second-Order Statistics of the Channel State Information. IEEE Transactions on Signal Processing, 2008, 56, 4306-4316.	3.2	374
125	Experimental performance evaluation of blind channel estimation for orthogonal space-time block codes. , 2008, , .		0
126	Blind channel estimation in MIMO-OFDM systems using semi-definite relaxation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	4



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127	Network beamforming based on second order statistics of the channel state information. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	12
128	Distributed Peer-to-Peer Multiplexing using Ad Hoc Relay Networks. , 2008, , .		23
129	Semiblind Channel and Carrier Frequency-Offset Estimation for Orthogonally Space-Time Block Coded MIMO Systems. , 2007, , .		0
130	A New Approach to Spatial Power Spectral Density Estimation for Multiple Incoherently Distributed Sources. , 2007, , .		13
131	Robust Downlink Beamforming Based on Outage Probability Specifications. IEEE Transactions on Wireless Communications, 2007, 6, 3498-3503.	6.1	101
132	Recent Advances in Orthogonal Space-Time Block Coding. , 2005, , 105-168.		1
133	Robust Adaptive Beamforming Based on Worst-Case Performance Optimization. , 2005, , 49-89.		9
134	Robust Downlink Power Control in Wireless Cellular Systems. Eurasip Journal on Wireless Communications and Networking, 2004, 2004, 1.	1.5	67
135	Exploiting Multiple Shift Invariances in Multidimensional Harmonic Retrieval of Damped Exponentials. , 0, , .		4
136	Semi-Blind Multi-User MIMO Channel Estimation Based on Capon and MUSIC Techniques. , 0, , .		4
137	Exploiting the Structure of OSTBC's to Improve the Robustness of Worst-Case Optimization Based Linear Multi-User MIMO Receivers. , 0, , .		2