

Jun Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

1,656
citations

20
h-index

37
g-index

123
ext. papers

2,486
ext. citations

5.9
avg, IF

5.92
L-index

#	Paper	IF	Citations
101	Reconfigurable Intelligent Surface-assisted Secure Mobile Edge Computing Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	13
100	Distributed Deep Reinforcement Learning Based Spectrum and Power Allocation for Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	1
99	Efficient Dropout-resilient Aggregation for Privacy-preserving Machine Learning. <i>IEEE Transactions on Information Forensics and Security</i> , 2022 , 1-1	8	2
98	Joint Node Activation, Beamforming and Phase-Shifting Control In IoT Sensor Network Assisted by Reconfigurable Intelligent Surface. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	
97	Joint Transmit Precoding and Reflect Beamforming Design for IRS-Assisted MIMO Cognitive Radio Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	4
96	Privacy-Enhanced Federated Learning with Weighted Aggregation. <i>Communications in Computer and Information Science</i> , 2021 , 93-109	0.3	2
95	Intelligent Reflecting Surface-Assisted Bistatic Backscatter Networks: Joint Beamforming and Reflection Design. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 1-1	4	1
94	Blockchain for Edge of Things: Applications, Opportunities, and Challenges. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	22
93	Inconspicuous Adversarial Patches for Fooling Image Recognition Systems on Mobile Devices. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	3
92	IRS-Assisted Millimeter Wave Communications: Joint Power Allocation and Beamforming Design 2021 ,		7
91	A novel random access scheme for M2M communication in crowded asynchronous massive MIMO systems. <i>IET Communications</i> , 2021 , 15, 1597	1.3	
90	UAV-Assisted 5G/6G Networks: Joint Scheduling and Resource Allocation Based on Asynchronous Reinforcement Learning 2021 ,		2
89	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 2977-2990	9.6	15
88	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 8865-8882	10.7	4
87	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 8836-8853	10.7	51
86	Secure Beamforming for Multiple Intelligent Reflecting Surfaces Aided mmWave Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 417-421	3.8	4
85	Blockchain for the Internet of Vehicles Towards Intelligent Transportation Systems: A Survey. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 4157-4185	10.7	91

84	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 375-388	9.6	125
83	Intelligent Reflecting Surface-Aided Joint Processing Coordinated Multipoint Transmission. <i>IEEE Transactions on Communications</i> , 2021 , 69, 1650-1665	6.9	41
82	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 1975-1989	6.9	18
81	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1963-1974	9.6	41
80	DPCrowd: Privacy-Preserving and Communication-Efficient Decentralized Statistical Estimation for Real-Time Crowdsourced Data. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 2775-2791	10.7	2
79	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 1817-1829	10.7	79
78	Reconfigurable Intelligent Surface Aided Power Control for Physical-Layer Broadcasting. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	4
77	Reflection Resource Management for Intelligent Reflecting Surface Aided Wireless Networks. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	6
76	Joint Active and Passive Beamforming Design for the IRS-Assisted MIMOME-OFDM Secure Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	13
75	Towards Efficiently Evaluating the Robustness of Deep Neural Networks in IoT Systems: A GAN-based Method. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	
74	Vehicle Selection and Resource Optimization for Federated Learning in Vehicular Edge Computing. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-15	6.1	11
73	A Novel Grant-Based Pilot Access Scheme for Crowded Massive MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	3
72	Reconfigurable Intelligent Surfaces Aided mmWave NOMA: Joint Power Allocation, Phase Shifts, and Hybrid Beamforming Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	16
71	A GCICA Grant-Free Random Access Scheme for M2M Communications in Crowded Massive MIMO Systems. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	7
70	A Survey of 6G Wireless Communications: Emerging Technologies. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 150-170	0.4	5
69	Adaptive Resource Allocation in SWIPT-Enabled Cognitive IoT Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	3
68	Enabling Cross-Chain Transactions: A Decentralized Cryptocurrency Exchange Protocol. <i>IEEE Transactions on Information Forensics and Security</i> , 2021 , 16, 3928-3941	8	6
67	Cyber-physical modelling operator and multimodal vibration in the integrated local vehicle-grid electrical system. <i>Applied Energy</i> , 2021 , 286, 116432	10.7	1

66	Joint Scheduling Design in Wireless Powered MEC IoT Networks Aided by Reconfigurable Intelligent Surface 2021 ,		2
65	Secrecy Rate Maximization for Reconfigurable Intelligent Surface Aided Millimeter Wave System With Low-Resolution DACs. <i>IEEE Communications Letters</i> , 2021 , 25, 2166-2170	3.8	3
64	Recent Advances in Adversarial Training for Adversarial Robustness 2021 ,		16
63	Uplink Achievable Rate Maximization for Reconfigurable Intelligent Surface Aided Millimeter Wave Systems With Resolution-Adaptive ADCs. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1608-1612	5.9	3
62	Mobile User Trajectory Tracking for IRS Enabled Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 8331-8336	6.8	2
61	. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 20, 2763-2778	4.6	9
60	Privacy-Preserving Federated Learning for UAV-Enabled Networks: Learning-Based Joint Scheduling and Resource Management. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 3144-3159	14.2	33
59	Slicing-based Reliable Resource Orchestration for Secure Software Defined Edge-Cloud Computing Systems. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	1
58	Blockchain for Future Smart Grid: A Comprehensive Survey. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 18-43	10.7	115
57	An Analysis of Blockchain Consistency in Asynchronous Networks: Deriving a Neat Bound 2020 ,		2
56	Intelligent Reflecting Surface-Aided Backscatter Communications 2020 ,		11
55	Towards the Future Data Market: Reward Optimization in Mobile Data Subsidization. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020 , 173-189	0.3	
54	Secure Hot Path Crowdsourcing with Local Differential Privacy under Fog Computing Architecture. <i>IEEE Transactions on Services Computing</i> , 2020 , 1-1	4.8	
53	POSTER: Blockchain-Based Differential Privacy Cost Management System 2020 ,		1
52	Secrecy Rate Maximization for Intelligent Reflecting Surface Aided SWIPT Systems 2020 ,		4
51	A Stackelberg Game Approach to Resource Allocation for IRS-aided Communications 2020 ,		3
50	Intelligent Reflecting Surface Assisted Anti-Jamming Communications Based on Reinforcement Learning 2020 ,		4
49	Deep Reinforcement Learning Based Intelligent Reflecting Surface for Secure Wireless Communications 2020 ,		1

48	Threats to Federated Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 3-16	0.9	33
47	Reconfigurable Intelligent Surface for MISO Systems with Proportional Rate Constraints 2020 ,		10
46	An Adaptive and Fast Convergent Approach to Differentially Private Deep Learning 2020 ,		5
45	Intelligent Reflecting Surface Aided Network: Power Control for Physical-Layer Broadcasting 2020 ,		30
44	Resource Allocation in Mobility-Aware Federated Learning Networks: A Deep Reinforcement Learning Approach 2020 ,		15
43	Residual-sparse Fuzzy C-Means Clustering Incorporating Morphological Reconstruction and Wavelet frame. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	5
42	. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 2363-2377	4.9	8
41	. <i>IEEE Access</i> , 2020 , 8, 219744-219756	3.5	9
40	Sum-Rate Maximization for UAV-Assisted Visible Light Communications Using NOMA: Swarm Intelligence Meets Machine Learning. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 10375-10387	10.7	41
39	Efficient Estimation of Heat Kernel PageRank for Local Clustering 2019 ,		2
38	. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 2906-2920	6.8	251
37	Synthesizing Wider WiFi Bandwidth for Respiration Rate Monitoring in Dynamic Environments 2019 ,		11
36	Collecting and Analyzing Multidimensional Data with Local Differential Privacy 2019 ,		64
35	Adaptive Differentially Private Data Stream Publishing in Spatio-temporal Monitoring of IoT 2019 ,		3
34	Design of Contract-Based Sponsorship Scheme in Stackelberg Game for Sponsored Content Market 2019 ,		1
33	Privacy-preserving Crowd-guided AI Decision-making in Ethical Dilemmas 2019 ,		4
32	Effects of Sodium Alginate on the Composition, Morphology, and Electrochemical Properties of Electrospun Carbon Nanofibers as Electrodes for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 632-640	8.3	21
31	. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 618-628	4	4

30	Transitional Behavior of q -Composite Random Key Graphs With Applications to Networked Control. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1741-1751	4	1
29	Topological Properties of Secure Wireless Sensor Networks Under the q -Composite Key Predistribution Scheme With Unreliable Links. <i>IEEE/ACM Transactions on Networking</i> , 2017 , 25, 1789-1802	3.8	17
28	Preserving Privacy Enables Coexistence Equilibrium of Competitive Diffusion in Social Networks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2017 , 3, 282-297	2.8	0
27	Analyzing Resilience of Interest-Based Social Networks Against Node and Link Failures. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2017 , 3, 252-267	2.8	3
26	k -Connectivity in Random k -Out Graphs Intersecting Erdős-Rényi Graphs. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 1677-1692	2.8	10
25	Modeling interest-based social networks: Superimposing Erdős-Rényi graphs over random intersection graphs 2017 ,		5
24	Designing secure networks with q -composite key predistribution under different link constraints 2017 ,		3
23	. <i>IEEE Transactions on Information Theory</i> , 2017 , 63, 6714-6734	2.8	6
22	On Connectivity and Robustness in Random Intersection Graphs. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2121-2136	5.9	18
21	On Resilience and Connectivity of Secure Wireless Sensor Networks Under Node Capture Attacks. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 557-571	8	27
20	On Secure Communication in Sensor Networks under q -Composite Key Predistribution with Unreliable Links. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	1
19	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	7
18	Toward k -Connectivity of the Random Graph Induced by a Pairwise Key Predistribution Scheme With Unreliable Links. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 6251-6271	2.8	18
17	Parameter control in predistribution schemes of cryptographic keys 2015 ,		3
16	2015 ,		2
15	2015 ,		5
14	. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 3810-3836	2.8	31
13	Exact analysis of k -connectivity in secure sensor networks with unreliable links 2015 ,		4

12	Critical behavior in heterogeneous random key graphs 2015 ,		2
11	Connectivity in secure wireless sensor networks under transmission constraints 2014 ,		13
10	2014 ,		16
9	On topological properties of wireless sensor networks under the q-composite key predistribution scheme with on/off channels 2014 ,		13
8	Minimum node degree and k-connectivity in wireless networks with unreliable links 2014 ,		11
7	On the strengths of connectivity and robustness in general random intersection graphs 2014 ,		21
6	Results on Vertex Degree and K-Connectivity in Uniform S-Intersection Graphs 2014 ,		2
5	2013 ,		15
4	ReDABLS: Revisiting Device Attestation with Bounded Leakage of Secrets. <i>Lecture Notes in Computer Science</i> , 2013 , 94-114	0.9	4
3	Brief Encounters with a Random Key Graph. <i>Lecture Notes in Computer Science</i> , 2013 , 157-161	0.9	2
2	Impact of Mobility and Heterogeneity on Coverage and Energy Consumption in Wireless Sensor Networks 2011 ,		24
1	Multicast Scaling Laws with Hierarchical Cooperation 2010 ,		20