Xinghua Sun

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7478229/publications.pdf

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44	409	933447 10	794594 19
papers	citations	h-index	g-index

44	44	44	370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Unified Analysis of IEEE 802.11 DCF Networks: Stability, Throughput, and Delay. IEEE Transactions on Mobile Computing, 2013, 12, 1558-1572.	5.8	99
2	Backoff Design for IEEE 802.11 DCF Networks: Fundamental Tradeoff and Design Criterion. IEEE/ACM Transactions on Networking, 2015, 23, 300-316.	3.8	46
3	Throughput Optimization With Delay Guarantee for Massive Random Access of M2M Communications in Industrial IoT. IEEE Internet of Things Journal, 2019, 6, 10077-10092.	8.7	30
4	Throughput Optimization of Heterogeneous IEEE 802.11 DCF Networks. IEEE Transactions on Wireless Communications, 2013, 12, 398-411.	9.2	27
5	Multi-Agent Reinforcement Learning-Based Distributed Channel Access for Next Generation Wireless Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1587-1599.	14.0	24
6	Towards Fair and Efficient Spectrum Sharing Between LTE and WiFi in Unlicensed Bands: Fairness-Constrained Throughput Maximization. IEEE Transactions on Wireless Communications, 2020, 19, 2713-2727.	9.2	21
7	Power Minimization Precoding in Uplink Multi-Antenna NOMA Systems With Jamming. IEEE Transactions on Green Communications and Networking, 2019, 3, 591-602.	5.5	19
8	Performance Optimization of CSMA Networks With a Finite Retry Limit. IEEE Transactions on Wireless Communications, 2016, 15, 5947-5962.	9.2	13
9	Sum Rate Optimization of Multi-Standard IEEE 802.11 WLANs. IEEE Transactions on Communications, 2019, 67, 3055-3068.	7.8	13
10	Average Age Of Changed Information In The Internet Of Things. , 2020, , .		11
11	Distributive Throughput Optimization for Massive Random Access of M2M Communications in LTE Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11828-11840.	6.3	11
12	Fairness-Constrained Maximum Sum Rate of Multi-Rate CSMA Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1741-1754.	9.2	9
13	Toward Optimal Connection Management for Massive Machine-Type Communications in 5G System. IEEE Internet of Things Journal, 2021, 8, 13237-13250.	8.7	8
14	To Sense or Not To Sense: A Comparative Study of CSMA With Aloha. IEEE Transactions on Communications, 2019, 67, 7587-7603.	7.8	7
15	Performance Optimization for Massive Random Access of mMTC in Cellular Networks With Preamble Retransmission Limit. IEEE Transactions on Vehicular Technology, 2021, 70, 8854-8867.	6.3	7
16	A comparative study of Quadratic Backoff and Binary Exponential Backoff in IEEE 802.11 DCF networks. , 2011, , .		5
17	Optimal Group Paging Frequency for Machine-to-Machine Communications in LTE Networks With Contention Resolution. IEEE Internet of Things Journal, 2019, 6, 10534-10545.	8.7	5
18	Computation Offloading and Resource Allocation for MEC in C-RAN: A Deep Reinforcement Learning Approach. , 2019, , .		5

#	Article	IF	Citations
19	Age of Changed Information: Content-Aware Status Updating in the Internet of Things. IEEE Transactions on Communications, 2022, 70, 578-591.	7.8	5
20	Optimal Biased Association Scheme with Heterogeneous User Distribution in HetNets. Wireless Personal Communications, 2016, 90, 575-594.	2.7	4
21	Achieving optimum network throughput and service differentiation for IEEE 802.11e EDCA networks. , 2013, , .		3
22	Maximum Throughput of CSMA Networks with Capture. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	3
23	A Reduced-Complexity ADMM Based Decoding Algorithm for LDPC Codes. , 2019, , .		3
24	When to Preprocess? Keeping Information Fresh for Computing-Enable Internet of Things. IEEE Internet of Things Journal, 2022, 9, 4303-4317.	8.7	3
25	Timely Status Updating over Markov Channels in Downlink Wireless Networks with Stochastic Arrivals. , 2021, , .		3
26	QOE-based dynamic resource allocation for multimedia traffic in IEEE 802.11 wireless networks. , 2011, , .		2
27	Throughput optimization of IEEE 802.11 DCF networks with packet dropping. , 2012, , .		2
28	Queue-Aware Small Cell Activation for Energy Efficiency in Two-Tier Heterogeneous Networks. , 2017, , .		2
29	Queue-Aware Optimal Bandwidth Allocation in Heterogeneous Networks. IEEE Wireless Communications Letters, 2017, 6, 730-733.	5.0	2
30	A Cellular Backhaul Virtualization Market Design for Green Small-Cell Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 468-482.	5.5	2
31	Optimizing Age of Information in Random-Access Poisson Networks. IEEE Internet of Things Journal, 2022, 9, 6816-6829.	8.7	2
32	Maximum Sum Rate of Slotted Aloha for mMTC with Short Packet. , 2020, , .		2
33	Distributed Delay Optimization of Machine-Type Communications in 5G Networks. , 2021, , .		2
34	Throughput optimization of heterogeneous IEEE 802.11 DCF networks. , 2012, , .		1
35	Optimal Performance of Cognitive Random Access Networks With Multi-Packet Reception. IEEE Communications Letters, 2014, 18, 1807-1810.	4.1	1
36	Queue-Aware Power Consumption Minimization in Two-Tier Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8875-8889.	6.3	1

#	Article	IF	Citations
37	Priority-Based Massive Random Access of M2M Communications in LTE Networks: Throughput Analysis and optimization. , 2019, , .		1
38	Performance Analysis of SPMA Protocol: A Markov Renewal Process Approach. , 2021, , .		1
39	User Scheduling for Information Freshness over Correlated Markov Channels. , 2020, , .		1
40	Cluster-based Group Paging Scheme with Preamble Reuse for mMTC in 5G Networks. , 2020, , .		1
41	Resource Rationing for Federated Learning with Reinforcement Learning. , 2021, , .		1
42	AoI-Constrained Energy Efficiency Optimization in Random-Access Poisson Networks. , 2022, , .		1
43	Age-based Scheduling in Internet of Things with Bursty Traffic over Time Varying Channels. , 2021, , .		0
44	Signaling Overhead-Constrained Throughput Optimization for 5G Packet-Based Random Access with mMTC. , 2021, , .		0