Wenchao Xia

List of Publications by Year
in descending order

40 papers	1,118 citations	623734 14 h-index	477307 29 g-index
40 all docs	40 docs citations	40 times ranked	973 citing authors

#	Article	IF	Citations
1	Adaptive Hierarchical Federated Learning Over Wireless Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 2070-2083.	6.3	18
2	An effective hybrid V2V/V2I transmission latency method based on LSTM neural network. Physical Communication, 2022, 51, 101562.	2.1	4
3	Cell-Free IoT Networks With SWIPT: Performance Analysis and Power Control. IEEE Internet of Things Journal, 2022, 9, 13780-13793.	8.7	12
4	Joint scheduling and resource allocation for federated learning in SWIPT-enabled micro UAV swarm networks. China Communications, 2022, 19, 119-135.	3.2	4
5	Secure Transmission in Cell-Free Massive MIMO With Low-Resolution DACs Over Rician Fading Channels. IEEE Transactions on Communications, 2022, 70, 2606-2621.	7.8	20
6	Weighted Adaptive KNN Algorithm With Historical Information Fusion for Fingerprint Positioning. IEEE Wireless Communications Letters, 2022, 11, 1002-1006.	5.0	16
7	Wireless-Powered Cell-Free Massive MIMO With Superimposed Pilot Transmission. IEEE Communications Letters, 2022, 26, 1688-1692.	4.1	3
8	Multiagent Collaborative Learning for UAV Enabled Wireless Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2630-2642.	14.0	5
9	A Unified Framework for Distributed RIS-Aided Downlink Systems Between MIMO-NOMA and MIMO-SDMA. IEEE Transactions on Communications, 2022, 70, 6310-6324.	7.8	8
10	Online Learning Based Computation Offloading in MEC Systems With Communication and Computation Dynamics. IEEE Transactions on Communications, 2021, 69, 1147-1162.	7.8	55
11	Dynamic Client Association for Energy-Aware Hierarchical Federated Learning. , 2021, , .		9
12	Federated-Learning-Based Client Scheduling for Low-Latency Wireless Communications. IEEE Wireless Communications, 2021, 28, 32-38.	9.0	25
13	Online Client Scheduling for Fast Federated Learning. IEEE Wireless Communications Letters, 2021, 10, 1434-1438.	5.0	28
14	Cell-Free Massive MIMO With Normalized Conjugate Beamforming and Channel Non-Reciprocities. , 2021, , .		1
15	Client Selection Based on Label Quantity Information for Federated Learning. , 2021, , .		9
16	Optimized Edge Aggregation for Hierarchical Federated Learning. , 2021, , .		0
17	Federated Learning in SWIPT-Enabled Micro-UAV Swarm Networks: A Joint Design of Scheduling and Resource Allocation. , 2021, , .		3
18	Improved KNN Algorithm with Historical Information Fusion for Indoor Positioning. , 2021, , .		2

#	Article	IF	Citations
19	Fast Beamforming Design via Deep Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 1065-1069.	6.3	186
20	A Deep Learning Framework for Optimization of MISO Downlink Beamforming. IEEE Transactions on Communications, 2020, 68, 1866-1880.	7.8	171
21	The interplay between artificial intelligence and fog radio access networks. China Communications, 2020, 17, 1-13.	3.2	7
22	Multi-Armed Bandit-Based Client Scheduling for Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 7108-7123.	9.2	155
23	Backhaul-Aware Resource Allocation and Optimum Placement for UAV-Assisted Wireless Communication Network. Electronics (Switzerland), 2020, 9, 1397.	3.1	5
24	Deep Learning Enabled Optimization of Downlink Beamforming Under Per-Antenna Power Constraints: Algorithms and Experimental Demonstration. IEEE Transactions on Wireless Communications, 2020, 19, 3738-3752.	9.2	13
25	Model-Driven Beamforming Neural Networks. IEEE Wireless Communications, 2020, 27, 68-75.	9.0	12
26	Mobile Edge Cloud-Based Industrial Internet of Things: Improving Edge Intelligence With Hierarchical SDN Controllers. IEEE Vehicular Technology Magazine, 2020, 15, 36-45.	3.4	27
27	Deep Learning Based Beamforming Neural Networks in Downlink MISO Systems. , 2019, , .		15
28	Edge Caching and Resource Allocation Scheme of Downlink Cloud Radio Access Networks With Fronthaul Compression. IEEE Access, 2019, 7, 118669-118678.	4.2	2
29	Programmable Hierarchical C-RAN: From Task Scheduling to Resource Allocation. IEEE Transactions on Wireless Communications, 2019, 18, 2003-2016.	9.2	37
30	Unsupervised Learning-Based Fast Beamforming Design for Downlink MIMO. IEEE Access, 2019, 7, 7599-7605.	4.2	170
31	Resource Allocation by Submodular Optimization in Programmable Hierarchical C-RAN. , 2018, , .		5
32	Energy Efficiency of Downlink C-RAN With Edge Caching and Fronthaul Compression. IEEE Communications Letters, 2018, 22, 2527-2530.	4.1	3
33	Joint Optimization of Fronthaul Compression and Bandwidth Allocation in Uplink H-CRAN With Large System Analysis. IEEE Transactions on Communications, 2018, 66, 6556-6569.	7.8	13
34	Energy-efficient task scheduling and resource allocation in downlink C-RAN. , 2018, , .		5
35	Power Minimization-Based Joint Task Scheduling and Resource Allocation in Downlink C-RAN. IEEE Transactions on Wireless Communications, 2018, 17, 7268-7280.	9.2	20
36	Large System Analysis of Resource Allocation in Heterogeneous Networks With Wireless Backhaul. IEEE Transactions on Communications, 2017, 65, 5040-5053.	7.8	15

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37	Joint Optimization of Fronthaul Compression and Bandwidth Allocation in Heterogeneous CRAN. , 2017, , .		2
38	Delay-based user association in heterogeneous networks with Backhaul. China Communications, 2017, 14, 130-141.	3.2	10
39	Bandwidth Allocation in Heterogeneous Networks with Wireless Backhaul. , 2016, , .		10
40	A novel handoff algorithm for hierarchical cellular networks. China Communications, 2016, 13, 136-147.	3.2	13