Kezhi Wang

List of Publications by Year
in descending order

137 papers	6,682 citations	71102 41 h-index	64796 79 g-index
138 all docs	138 docs citations	138 times ranked	3605 citing authors

#	Article	IF	Citations
1	Private and Utility Enhanced Recommendations With Local Differential Privacy and Gaussian Mixture Model. IEEE Transactions on Knowledge and Data Engineering, 2023, 35, 4151-4163.	5.7	6
2	Computation Efficiency Optimization for Millimeter-Wave Mobile Edge Computing Networks With NOMA. IEEE Transactions on Mobile Computing, 2023, 22, 4578-4593.	5.8	4
3	Combining Lyapunov Optimization With Evolutionary Transfer Optimization for Long-Term Energy Minimization in IRS-Aided Communications. IEEE Transactions on Cybernetics, 2023, 53, 2647-2657.	9.5	1
4	Robust Beamforming Design for Intelligent Reflecting Surface Aided Cognitive Radio Systems With Imperfect Cascaded CSI. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 186-201.	7.9	36
5	Distributed Resource Scheduling for Large-Scale MEC Systems: A Multiagent Ensemble Deep Reinforcement Learning With Imitation Acceleration. IEEE Internet of Things Journal, 2022, 9, 6597-6610.	8.7	31
6	Deep Reinforcement Learning Based Dynamic Trajectory Control for UAV-Assisted Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2022, 21, 3536-3550.	5.8	76
7	Statistical CSI-Based Transmission Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Hardware Impairments. IEEE Wireless Communications Letters, 2022, 11, 38-42.	5.0	23
8	A Divide-and-Conquer Bilevel Optimization Algorithm for Jointly Pricing Computing Resources and Energy in Wireless Powered MEC. IEEE Transactions on Cybernetics, 2022, 52, 12099-12111.	9.5	3
9	Number and Operation Time Minimization for Multi-UAV-Enabled Data Collection System With Time Windows. IEEE Internet of Things Journal, 2022, 9, 10149-10161.	8.7	15
10	Energy-Effective Offloading Scheme in UAV-Assisted C-RAN System. IEEE Internet of Things Journal, 2022, 9, 10821-10832.	8.7	2
11	IRS-Assisted Short Packet Wireless Energy Transfer and Communications. IEEE Wireless Communications Letters, 2022, 11, 303-307.	5.0	10
12	Joint Optimization of UAV Trajectory and Sensor Uploading Powers for UAV-Assisted Data Collection in Wireless Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 11214-11226.	8.7	24
13	Ergodic Rate Analysis of Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With ZF Detectors. IEEE Communications Letters, 2022, 26, 264-268.	4.1	17
14	Sum-Rate Maximization for Intelligent Reflecting Surface Assisted Terahertz Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 3320-3325.	6.3	46
15	Matching-Theory-Based Multi-User Cooperative Computing Framework. IEEE Communications Letters, 2022, 26, 414-418.	4.1	2
16	3D-Trajectory and Phase-Shift Design for RIS-Assisted UAV Systems Using Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 3020-3029.	6.3	36
17	Long-Term CSI-Based Design for RIS-Aided Multiuser MISO Systems Exploiting Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 567-571.	4.1	12
18	Self-Sustainable Reconfigurable Intelligent Surface Aided Simultaneous Terahertz Information and Power Transfer (STIPT). IEEE Transactions on Wireless Communications, 2022, 21, 5420-5434.	9.2	21

#	Article	IF	Citations
19	Intelligent Reflecting Surface-Aided URLLC in a Factory Automation Scenario. IEEE Transactions on Communications, 2022, 70, 707-723.	7.8	61
20	Latency Minimization for Secure Intelligent Reflecting Surface Enhanced Virtual Reality Delivery Systems. IEEE Wireless Communications Letters, 2022, 11, 1770-1774.	5.0	1
21	Fairness-Oriented Multiple RIS-Aided mmWave Transmission: Stochastic Optimization Methods. IEEE Transactions on Signal Processing, 2022, 70, 1402-1417.	5.3	5
22	Performance Analysis for Channel-Weighted Federated Learning in OMA Wireless Networks. IEEE Signal Processing Letters, 2022, 29, 772-776.	3.6	2
23	Joint Optimization for Pedestrian, Information and Energy Flows in Emergency Response Systems With Energy Harvesting and Energy Sharing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22421-22435.	8.0	21
24	Placement Optimization for Multi-IRS-Aided Wireless Communications: An Adaptive Differential Evolution Algorithm. IEEE Wireless Communications Letters, 2022, 11, 942-946.	5.0	11
25	Joint Program Partitioning and Resource Allocation for Completion Time Minimization in Multi-MEC Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 1932-1948.	6.4	1
26	Deep Reinforcement Learning-Based Resource Management for Flexible Mobile Edge Computing: Architectures, Applications, and Research Issues. IEEE Vehicular Technology Magazine, 2022, 17, 85-93.	3.4	3
27	Power Scaling Law Analysis and Phase Shift Optimization of RIS-Aided Massive MIMO Systems With Statistical CSI. IEEE Transactions on Communications, 2022, 70, 3558-3574.	7.8	52
28	User cooperation for IRS-aided secure MIMO systems. Intelligent and Converged Networks, 2022, 3, 86-102.	4.8	5
29	Joint Optimization of Deployment and Trajectory in UAV and IRS-Assisted IoT Data Collection System. IEEE Internet of Things Journal, 2022, 9, 21583-21593.	8.7	19
30	Computation Efficiency Optimization for RIS-Assisted Millimeter-Wave Mobile Edge Computing Systems. IEEE Transactions on Communications, 2022, 70, 5528-5542.	7.8	6
31	Caching and UAV Friendly Jamming for Secure Communications With Active Eavesdropping Attacks. IEEE Transactions on Vehicular Technology, 2022, 71, 11251-11256.	6.3	9
32	Private Federated Learning With Misaligned Power Allocation via Over-the-Air Computation. IEEE Communications Letters, 2022, 26, 1994-1998.	4.1	4
33	Multi-UAV Trajectory Design and Power Control Based on Deep Reinforcement Learning. Journal of Communications and Information Networks, 2022, 7, 192-201.	5.2	4
34	Optimizing Multi-UAV Deployment in 3-D Space to Minimize Task Completion Time in UAV-Enabled Mobile Edge Computing Systems. IEEE Communications Letters, 2021, 25, 579-583.	4.1	50
35	Sliding Differential Evolution Scheduling for Federated Learning in Bandwidth-Limited Networks. IEEE Communications Letters, 2021, 25, 503-507.	4.1	8
36	Packet Error Probability and Effective Throughput for Ultra-Reliable and Low-Latency UAV Communications. IEEE Transactions on Communications, 2021, 69, 73-84.	7.8	48

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37	Multi-Agent Deep Reinforcement Learning-Based Trajectory Planning for Multi-UAV Assisted Mobile Edge Computing. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 73-84.	7.9	196
38	From smart parking towards autonomous valet parking: A survey, challenges and future Works. Journal of Network and Computer Applications, 2021, 175, 102935.	9.1	53
39	Stochastic Learning-Based Robust Beamforming Design for RIS-Aided Millimeter-Wave Systems in the Presence of Random Blockages. IEEE Transactions on Vehicular Technology, 2021, 70, 1057-1061.	6.3	45
40	AI Driven Heterogeneous MEC System with UAV Assistance for Dynamic Environment: Challenges and Solutions. IEEE Network, 2021, 35, 400-408.	6.9	57
41	Communication-and-Computing Latency Minimization for UAV-Enabled Virtual Reality Delivery Systems. IEEE Transactions on Communications, 2021, 69, 1723-1735.	7.8	33
42	Uplink Achievable Rate of Intelligent Reflecting Surface-Aided Millimeter-Wave Communications With Low-Resolution ADC and Phase Noise. IEEE Wireless Communications Letters, 2021, 10, 654-658.	5.0	44
43	Joint Optimization of 3D Trajectory and Scheduling for Solar-Powered UAV Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 3972-3977.	6.3	16
44	Robust Transmission Design for Intelligent Reflecting Surface-Aided Secure Communication Systems With Imperfect Cascaded CSI. IEEE Transactions on Wireless Communications, 2021, 20, 2487-2501.	9.2	120
45	UAV-Assisted Data Rate Maximization Under 3-D Channel Model. , 2021, , .		1
46	Statistical CSI-Based Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Direct Links. IEEE Wireless Communications Letters, 2021, 10, 1128-1132.	5.0	70
47	A new differential evolution algorithm for joint mining decision and resource allocation in a MEC-enabled wireless blockchain network. Computers and Industrial Engineering, 2021, 155, 107186.	6.3	18
48	A Bipartite Graph Approach for FDD V2V Underlay Massive MIMO Transmission. IEEE Transactions on Vehicular Technology, 2021, 70, 5149-5154.	6.3	2
49	RIS-Aided mmWave Transmission: A Stochastic Majorization-Minimization Approach. , 2021, , .		2
50	Cost Minimization for Cooperative Computation Framework in MEC Networks. IEEE Transactions on Wireless Communications, 2021, 20, 3670-3684.	9.2	16
51	Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Communications Magazine, 2021, 59, 14-20.	6.1	354
52	GIS aided sustainable urban road management with a unifying queueing and neural network model. Applied Energy, 2021, 291, 116818.	10.1	57
53	Secure Wireless Communication in RIS-Aided MISO System With Hardware Impairments. IEEE Wireless Communications Letters, 2021, 10, 1309-1313.	5.0	61
54	UAV-Assisted and Intelligent Reflecting Surfaces-Supported Terahertz Communications. IEEE Wireless Communications Letters, 2021, 10, 1256-1260.	5.0	97

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55	Completion Time Minimization in Wireless-Powered UAV-Assisted Data Collection System. IEEE Communications Letters, 2021, 25, 1954-1958.	4.1	20
56	Average Data Rate and Decoding Error Probability Analysis for IRS-aided URLLC in a Factory Automation Scenario. , 2021, , .		3
57	Simultaneous Terahertz Information and Power Transfer (STIPT) with Self-Sustainable Intelligent Reflecting Surface. , 2021, , .		0
58	Analysis and Optimization of RIS-aided Massive MIMO Systems with Statistical CSI. , 2021, , .		6
59	Reconfigurable Intelligent Surface Aided Massive MIMO Systems With Low-Resolution DACs. IEEE Communications Letters, 2021, 25, 3124-3128.	4.1	12
60	Multi-User Cooperative Computation Framework Based on Bertrand Game. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	0
61	Reconfigurable Intelligent Surface-Aided MISO Systems with Statistical CSI: Channel Estimation, Analysis and Optimization : (Invited Paper). , 2021, , .		11
62	Channel Estimation for RIS-Aided Millimeter-Wave Massive MIMO Systems : (Invited Paper). , 2021, , .		2
63	Joint Deployment and Task Scheduling Optimization for Large-Scale Mobile Users in Multi-UAV-Enabled Mobile Edge Computing. IEEE Transactions on Cybernetics, 2020, 50, 3984-3997.	9.5	174
64	Secure Communications for UAV-Enabled Mobile Edge Computing Systems. IEEE Transactions on Communications, 2020, 68, 376-388.	7.8	163
65	Partial offloading strategy for mobile edge computing considering mixed overhead of time and energy. Neural Computing and Applications, 2020, 32, 15383-15397.	5.6	24
66	A Bilevel Optimization Approach for Joint Offloading Decision and Resource Allocation in Cooperative Mobile Edge Computing. IEEE Transactions on Cybernetics, 2020, 50, 4228-4241.	9.5	74
67	Differential Evolution With a Variable Population Size for Deployment Optimization in a UAV-Assisted IoT Data Collection System. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 324-335.	4.9	59
68	Waiting Time Minimized Charging and Discharging Strategy Based on Mobile Edge Computing Supported by Software-Defined Network. IEEE Internet of Things Journal, 2020, 7, 6088-6101.	8.7	47
69	Task number maximization offloading strategy seamlessly adapted to UAV scenario. Computer Communications, 2020, 151, 19-30.	5.1	42
70	Joint Trajectory-Resource Optimization in UAV-Enabled Edge-Cloud System With Virtualized Mobile Clone. IEEE Internet of Things Journal, 2020, 7, 5906-5921.	8.7	67
71	Deep-Learning-Based Joint Resource Scheduling Algorithms for Hybrid MEC Networks. IEEE Internet of Things Journal, 2020, 7, 6252-6265.	8.7	116
72	Parallel Deep Reinforcement Learning Based Online User Association Optimization in Heterogeneous Networks. , 2020, , .		9

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73	A Framework of Robust Transmission Design for IRS-Aided MISO Communications With Imperfect Cascaded Channels. IEEE Transactions on Signal Processing, 2020, 68, 5092-5106.	5.3	269
74	Data Rate Maximization in UAV-Assisted C-RAN. IEEE Wireless Communications Letters, 2020, 9, 2163-2167.	5.0	10
75	Artificial-Noise-Aided Secure MIMO Wireless Communications via Intelligent Reflecting Surface. IEEE Transactions on Communications, 2020, 68, 7851-7866.	7.8	202
76	A Review on Computational Intelligence Techniques in Cloud and Edge Computing. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 742-763.	4.9	57
77	Stacked Autoencoder-Based Deep Reinforcement Learning for Online Resource Scheduling in Large-Scale MEC Networks. IEEE Internet of Things Journal, 2020, 7, 9278-9290.	8.7	34
78	Intelligent Reflecting Surface Aided Multigroup Multicast MISO Communication Systems. IEEE Transactions on Signal Processing, 2020, 68, 3236-3251.	5.3	198
79	Multicell MIMO Communications Relying on Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2020, 19, 5218-5233.	9.2	589
80	Joint Transmit Power and Placement Optimization for URLLC-Enabled UAV Relay Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8003-8007.	6.3	61
81	Robust Beamforming Design for Intelligent Reflecting Surface Aided MISO Communication Systems. IEEE Wireless Communications Letters, 2020, 9, 1658-1662.	5.0	185
82	Analog Versus Hybrid Precoding for Multiuser Massive MIMO With Quantized CSI Feedback. IEEE Communications Letters, 2020, 24, 2319-2323.	4.1	13
83	Congestion-Balanced and Welfare-Maximized Charging Strategies for Electric Vehicles. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2882-2895.	5.6	34
84	Intelligent Reflecting Surface Aided MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2020, 38, 1719-1734.	14.0	507
85	Efficient Multitask Scheduling for Completion Time Minimization in UAV-Assisted Mobile Edge Computing. Mobile Information Systems, 2020, 2020, 1-11.	0.6	9
86	Bit-Level Optimized Neural Network for Multi-Antenna Channel Quantization. IEEE Wireless Communications Letters, 2020, 9, 87-90.	5.0	37
87	A Blockchain-Based Reward Mechanism for Mobile Crowdsensing. IEEE Transactions on Computational Social Systems, 2020, 7, 178-191.	4.4	63
88	Offloading Optimization for Low-Latency Secure Mobile Edge Computing Systems. IEEE Wireless Communications Letters, 2020, 9, 480-484.	5.0	29
89	A Novel Cross Entropy Approach for Offloading Learning in Mobile Edge Computing. IEEE Wireless Communications Letters, 2020, 9, 402-405.	5.0	21
90	Power Consumption Optimization Using Gradient Boosting Aided Deep Q-Network in C-RANs. IEEE Access, 2020, 8, 46811-46823.	4.2	8

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91	Multicell Edge Coverage Enhancement Using Mobile UAV-Relay. IEEE Internet of Things Journal, 2020, 7, 7482-7494.	8.7	23
92	Spectral and Energy Efficiency of IRS-Assisted MISO Communication With Hardware Impairments. IEEE Wireless Communications Letters, 2020, 9, 1366-1369.	5.0	119
93	Toward Autonomous Valet Parking: A Broader Perspective. , 2020, , 99-115.		1
94	Detection Performance to Spatially Random UAV Using the Ground Vehicle. IEEE Transactions on Vehicular Technology, 2020, 69, 16320-16324.	6.3	11
95	Robust Transmission Design for Intelligent Reflecting Surface Aided Secure Communications. , 2020, , .		4
96	Energy Efficient Resource Allocation in UAV-Enabled Mobile Edge Computing Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4576-4589.	9.2	277
97	Achievable Data Rate for URLLC-Enabled UAV Systems With 3-D Channel Model. IEEE Wireless Communications Letters, 2019, 8, 1587-1590.	5.0	82
98	Unified Offloading Decision Making and Resource Allocation in ME-RAN. IEEE Transactions on Vehicular Technology, 2019, 68, 8159-8172.	6.3	29
99	Ergodic Rate Analysis of Cooperative Ambient Backscatter Communication. IEEE Wireless Communications Letters, 2019, 8, 1679-1682.	5.0	30
100	RL-Based User Association and Resource Allocation for Multi-UAV enabled MEC. , 2019, , .		32
101	A Task Allocation Algorithm for Profit Maximization in NFC-RAN. , 2019, , .		2
102	Joint Resources and Workflow Scheduling in UAV-Enabled Wirelessly-Powered MEC for IoT Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 10187-10200.	6.3	163
103	Jointly Optimized Energy-Minimal Resource Allocation in Cache-Enhanced Mobile Edge Computing Systems. IEEE Access, 2019, 7, 3336-3347.	4.2	33
104	Communication and computation cooperation in cloud radio access network with mobile edge computing. CCF Transactions on Networking, 2019, 2, 43-56.	1.1	15
105	Edge Caching and Computation Offloading for Fog-Enabled Radio Access Network. Wireless Personal Communications, 2019, 109, 297-313.	2.7	2
106	Optimal Filter Length and Zero Padding Length Design for Universal Filtered Multi-Carrier (UFMC) System. IEEE Access, 2019, 7, 21687-21701.	4.2	12
107	Resource Allocation for UAV-Assisted IoT Networks with Energy Harvesting and Computation Offloading. , 2019, , .		7
108	Trajectory Design of Laser-Powered Multi-Drone Enabled Data Collection System for Smart Cities. , 2019, , .		8

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109	Power Efficient User Cooperative Computation to Maximize Completed Tasks in MEC Networks. , 2019, , .		2
110	Joint Trajectory-Task-Cache Optimization in UAV-Enabled Mobile Edge Networks for Cyber-Physical System. IEEE Access, 2019, 7, 156476-156488.	4.2	29
111	MIMO Channel Information Feedback Using Deep Recurrent Network. IEEE Communications Letters, 2019, 23, 188-191.	4.1	92
112	Joint Energy Minimization and Resource Allocation in C-RAN with Mobile Cloud. IEEE Transactions on Cloud Computing, 2018, 6, 760-770.	4.4	177
113	Optimal Task Allocation in Near-Far Computing Enhanced C-RAN for Wireless Big Data Processing. IEEE Wireless Communications, 2018, 25, 50-55.	9.0	35
114	Special issue on communication and computation cooperation (3C): Principles, algorithms and systems. International Journal of Communication Systems, 2018, 31, e3564.	2.5	0
115	Dynamic Resource Scheduling in Mobile Edge Cloud with Cloud Radio Access Network. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2429-2445.	5.6	80
116	Proportional Fairness in Wireless Powered CSMA/CA Based IoT Networks. , 2018, , .		3
117	Energy Minimization and Offloading Number Maximization in Wireless Mobile Edge Computing. , 2018, , .		3
118	Energy-Efficient Resource Allocation in UAV Based MEC System for IoT Devices. , 2018, , .		65
119	Toward Distributed Battery Switch Based Electro-Mobility Using Publish/Subscribe System. IEEE Transactions on Vehicular Technology, 2018, 67, 10204-10217.	6.3	21
120	Reward-Aided Sensing Task Execution in Mobile Crowdsensing Enabled by Energy Harvesting. IEEE Access, 2018, 6, 37604-37614.	4.2	6
121	Joint Cache Content Placement and Task Offloading in C-RAN Enabled by Multi-Layer MEC. Sensors, 2018, 18, 1826.	3.8	12
122	Computation Diversity in Emerging Networking Paradigms. IEEE Wireless Communications, 2017, 24, 88-94.	9.0	49
123	Multi-Layer Cloud-RAN With Cooperative Resource Allocations for Low-Latency Computing and Communication Services. IEEE Access, 2017, 5, 19023-19032.	4.2	40
124	On Efficient Offloading Control in Cloud Radio Access Network with Mobile Edge Computing. , 2017, , .		35
125	Resource allocation between service computing and communication computing for mobile operator. , 2017, , .		1
126	Congestion Balanced Green Charging Networks for Electric Vehicles in Smart Grid. , 2017, , .		5

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127	Maximizing the Profit of Cloud Broker with Priority Aware Pricing. , 2017, , .		9
128	Power-Minimization Computing Resource Allocation in Mobile Cloud-Radio Access Network. , 2016, , .		12
129	Cost-effective resource allocation in C-RAN with mobile cloud. , 2016, , .		27
130	Dynamic resource scheduling in cloud radio access network with mobile cloud computing. , 2016, , .		13
131	ALRTâ€based energy detection using uniform noise distribution. Wireless Communications and Mobile Computing, 2016, 16, 1009-1017.	1.2	3
132	Statistics of <inline-formula> <tex-math notation="TeX">$alpha-mu$</tex-math></inline-formula> Random Variables and Their Applications in Wireless Multihop Relaying and Multiple Scattering Channels. IEEE Transactions on Vehicular Technology, 2015, 64, 2754-2759.	6.3	3
133	Outage Probability of Dual-Hop Selective AF With Randomly Distributed and Fixed Interferers. IEEE Transactions on Vehicular Technology, 2015, 64, 4603-4616.	6.3	8
134	BER and Optimal Power Allocation for Amplify-and-Forward Relaying Using Pilot-Aided Maximum Likelihood Estimation. IEEE Transactions on Communications, 2014, 62, 3462-3475.	7.8	24
135	Pilot Power Optimization for AF Relaying Using Maximum Likelihood Channel Estimation. , 2014, , .		0
136	Sum of Ratios of Products for alpha - µ Random Variables in Wireless Multihop Relaying and Multiple Scattering. , 2014, , .		0
137	Hard-Decision Fusion With Arbitrary Numbers of Bits for Different Samples. IEEE Transactions on Vehicular Technology, 2013, 62, 879-884.	6.3	5