Jiajia Liu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9227786/publications.pdf

Version: 2024-02-01

95 papers	7,608 citations	61857 43 h-index	56606 83 g-index
95 all docs	95 docs citations	95 times ranked	6268 citing authors

#	Article	IF	Citations
1	Space-Air-Ground Integrated Network: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2714-2741.	24.8	634
2	Device-to-Device Communication in LTE-Advanced Networks: A Survey. IEEE Communications Surveys and Tutorials, 2015, 17, 1923-1940.	24.8	541
3	Future Intelligent and Secure Vehicular Network Toward 6G: Machine-Learning Approaches. Proceedings of the IEEE, 2020, 108, 292-307.	16.4	404
4	Networking and Communications in Autonomous Driving: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1243-1274.	24.8	319
5	Collaborative Computation Offloading for Multiaccess Edge Computing Over Fiberâ€“Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4514-4526.	3.9	306
6	Computation Offloading for Multi-Access Mobile Edge Computing in Ultra-Dense Networks. IEEE Communications Magazine, 2018, 56, 14-19.	4.9	280
7	Optimizing Space-Air-Ground Integrated Networks by Artificial Intelligence. IEEE Wireless Communications, 2019, 26, 140-147.	6.6	272
8	Smart Resource Allocation for Mobile Edge Computing: A Deep Reinforcement Learning Approach. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1529-1541.	3.2	252
9	Ten Challenges in Advancing Machine Learning Technologies toward 6G. IEEE Wireless Communications, 2020, 27, 96-103.	6.6	248
10	Task Offloading in Vehicular Edge Computing Networks: A Load-Balancing Solution. IEEE Transactions on Vehicular Technology, 2020, 69, 2092-2104.	3.9	246
11	Mobile-Edge Computation Offloading for Ultradense IoT Networks. IEEE Internet of Things Journal, 2018, 5, 4977-4988.	5.5	238
12	UAV-Enhanced Intelligent Offloading for Internet of Things at the Edge. IEEE Transactions on Industrial Informatics, 2020, 16, 2737-2746.	7.2	209
13	Connecting Intelligent Things in Smart Hospitals Using NB-IoT. IEEE Internet of Things Journal, 2018, 5, 1550-1560.	5.5	173
14	In-Vehicle Network Attacks and Countermeasures: Challenges and Future Directions. IEEE Network, 2017, 31, 50-58.	4.9	169
15	Double Auction-Based Resource Allocation for Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 4692-4701.	7.2	169
16	Envisioning Device-to-Device Communications in 6G. IEEE Network, 2020, 34, 86-91.	4.9	165
17	Machine Learning Meets Computation and Communication Control in Evolving Edge and Cloud: Challenges and Future Perspective. IEEE Communications Surveys and Tutorials, 2020, 22, 38-67.	24.8	164
18	A Survey on Space-Air-Ground-Sea Integrated Network Security in 6G. IEEE Communications Surveys and Tutorials, 2022, 24, 53-87.	24.8	140

#	Article	IF	Citations
19	Joint Placement of Controllers and Gateways in SDN-Enabled 5G-Satellite Integrated Network. IEEE Journal on Selected Areas in Communications, 2018, 36, 221-232.	9.7	134
20	Smart and Resilient EV Charging in SDN-Enhanced Vehicular Edge Computing Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 217-228.	9.7	130
21	Task Offloading in UAV-Aided Edge Computing: Bit Allocation and Trajectory Optimization. IEEE Communications Letters, 2019, 23, 538-541.	2.5	113
22	When Machine Learning Meets Privacy in 6G: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 2694-2724.	24.8	111
23	When Smart Wearables Meet Intelligent Vehicles: Challenges and Future Directions. IEEE Wireless Communications, 2017, 24, 58-65.	6.6	93
24	Intelligent Task Offloading in Vehicular Edge Computing Networks. IEEE Wireless Communications, 2020, 27, 126-132.	6.6	90
25	Automobile Driver Fingerprinting: A New Machine Learning Based Authentication Scheme. IEEE Transactions on Industrial Informatics, 2020, 16, 1417-1426.	7.2	89
26	Efficient Offloading for Minimizing Task Computation Delay of NOMA-Based Multiaccess Edge Computing. IEEE Transactions on Communications, 2022, 70, 3186-3203.	4.9	80
27	Analytical Modeling of Resource Allocation in D2D Overlaying Multihop Multichannel Uplink Cellular Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 6633-6644.	3.9	71
28	Joint Resource Allocation and Incentive Design for Blockchain-Based Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2020, 19, 6050-6064.	6.1	71
29	FiWi-Enhanced Vehicular Edge Computing Networks: Collaborative Task Offloading. IEEE Vehicular Technology Magazine, 2019, 14, 45-53.	2.8	69
30	Intelligent Reflecting Surface Enabled Secure Cooperative Transmission for Satellite-Terrestrial Integrated Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 2007-2011.	3.9	69
31	TSP Security in Intelligent and Connected Vehicles: Challenges and Solutions. IEEE Wireless Communications, 2019, 26, 125-131.	6.6	63
32	Toward Swarm Coordination: Topology-Aware Inter-UAV Routing Optimization. IEEE Transactions on Vehicular Technology, 2020, 69, 10177-10187.	3.9	62
33	Optimal Satellite Gateway Placement in Space-Ground Integrated Networks. IEEE Network, 2018, 32, 32-37.	4.9	58
34	Machine Learning-Enabled Cooperative Spectrum Sensing for Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2020, 19, 5692-5702.	6.1	55
35	Toward Intelligent Task Offloading at the Edge. IEEE Network, 2020, 34, 128-134.	4.9	53
36	Intelligent Reflecting Surface Empowered Physical-Layer Security: Signal Cancellation or Jamming?. IEEE Internet of Things Journal, 2022, 9, 1265-1275.	5.5	52

#	Article	IF	Citations
37	Fault Detection and Repairing for Intelligent Connected Vehicles Based on Dynamic Bayesian Network Model. IEEE Internet of Things Journal, 2018, 5, 2431-2440.	5.5	51
38	Optimal Placement of Virtual Machines for Supporting Multiple Applications in Mobile Edge Networks. IEEE Transactions on Vehicular Technology, 2018, , 1-1.	3.9	50
39	Optimal Satellite Gateway Placement in Space-Ground Integrated Network for Latency Minimization With Reliability Guarantee. IEEE Wireless Communications Letters, 2018, 7, 174-177.	3.2	48
40	AI-Enhanced Cooperative Spectrum Sensing for Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2020, 27, 173-179.	6.6	48
41	Blockchain-Based Trust Management for Internet of Vehicles. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1397-1409.	3.2	48
42	Social-Aware Incentive Mechanisms for D2D Resource Sharing in IIoT. IEEE Transactions on Industrial Informatics, 2020, 16, 5517-5526.	7.2	47
43	Attacker Identification and Intrusion Detection for In-Vehicle Networks. IEEE Communications Letters, 2019, 23, 1927-1930.	2.5	46
44	Threshold Tuning-Based Wearable Sensor Fault Detection for Reliable Medical Monitoring Using Bayesian Network Model. IEEE Systems Journal, 2018, 12, 1886-1896.	2.9	43
45	Blockchain-Based Key Management for Heterogeneous Flying Ad Hoc Network. IEEE Transactions on Industrial Informatics, 2021, 17, 7629-7638.	7.2	42
46	Energy Consumption Minimization for FiWi Enhanced LTE-A HetNets with UE Connection Constraint. , 2016, 54, 56-62.		41
47	Vehicular intelligence in 6G: Networking, communications, and computing. Vehicular Communications, 2022, 33, 100399.	2.7	36
48	Coordinated Multipoint-Based Uplink Transmission in Internet of Things Powered by Energy Harvesting. IEEE Internet of Things Journal, 2018, 5, 2585-2595.	5.5	35
49	Distributed Q-Learning Aided Uplink Grant-Free NOMA for Massive Machine-Type Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 2029-2041.	9.7	34
50	Application of Cybertwin for Offloading in Mobile Multiaccess Edge Computing for 6G Networks. IEEE Internet of Things Journal, 2021, 8, 16231-16242.	5.5	31
51	Toward Smart and Secure V2X Communication in 5G and Beyond: A UAV-Enabled Aerial Intelligent Reflecting Surface Solution. IEEE Vehicular Technology Magazine, 2022, 17, 66-73.	2.8	31
52	2-to-<inline-formula> <tex-math notation="LaTeX">M </tex-math> </inline-formula> Coordinated Multipoint-Based Uplink Transmission in Ultra-Dense Cellular Networks. IEEE Transactions on Wireless Communications, 2018, 17, 8342-8356.	6.1	29
53	Topology Poisoning Attack in SDN-Enabled Vehicular Edge Network. IEEE Internet of Things Journal, 2020, 7, 9563-9574.	5.5	28
54	Reconfigurable Intelligent Surface Enhanced Secure Aerial-Ground Communication. IEEE Transactions on Communications, 2021, 69, 6185-6197.	4.9	26

#	Article	IF	Citations
55	Deep Learning-Based Privacy Preservation and Data Analytics for IoT Enabled Healthcare. IEEE Transactions on Industrial Informatics, 2022, 18, 4798-4807.	7.2	26
56	Optimal Placement of Virtual Machines in Mobile Edge Computing. , 2017, , .		25
57	Big Data Acquisition Under Failures in FiWi Enhanced Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 420-432.	3.2	25
58	Movement Aware CoMP Handover in Heterogeneous Ultra-Dense Networks. IEEE Transactions on Communications, 2021, 69, 340-352.	4.9	25
59	VehicleEIDS: A Novel External Intrusion Detection System Based on Vehicle Voltage Signals. IEEE Internet of Things Journal, 2022, 9, 2124-2133.	5.5	25
60	Resisting Undesired Signal Through IRS-Based Backscatter Communication System. IEEE Communications Letters, 2021, 25, 2743-2747.	2.5	23
61	Deep Learning Enhanced Driving Behavior Evaluation Based on Vehicle-Edge-Cloud Architecture. IEEE Transactions on Vehicular Technology, 2021, 70, 6172-6177.	3.9	22
62	On Minimizing Energy Consumption in FiWi Enhanced LTE-A HetNets. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 579-591.	3.2	21
63	Spatially Cooperative Caching and Optimization for Heterogeneous Network. IEEE Transactions on Vehicular Technology, 2019, 68, 11260-11270.	3.9	21
64	Multi-Agent Deep Reinforcement Learning for Massive Access in 5G and Beyond Ultra-Dense NOMA System. IEEE Transactions on Wireless Communications, 2022, 21, 3057-3070.	6.1	19
65	Inter-Server Collaborative Federated Learning for Ultra-Dense Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 5191-5203.	6.1	18
66	Achieving Robust and Efficient Consensus for Large-Scale Drone Swarm. IEEE Transactions on Vehicular Technology, 2020, 69, 15867-15879.	3.9	17
67	Congestion-Aware Communication Paradigm for Sustainable Dense Mobile Crowdsensing. , 2017, 55, 62-67.		15
68	Resilient and Low-Latency Information Acquisition for FiWi Enhanced Smart Grid. IEEE Network, 2017, 31, 80-86.	4.9	15
69	Multi-Task Cross-Server Double Auction for Resource Allocation in Mobile Edge Computing. , 2019, , .		14
70	Overprivileged Permission Detection for Android Applications. , 2019, , .		14
71	An Attribute-Based Distributed Access Control for Blockchain-enabled IoT. , 2019, , .		13
72	Weighted Sum Rate Maximization in IRS-BackCom Enabled Downlink Multi-Cell MISO Network. IEEE Communications Letters, 2022, 26, 642-646.	2.5	13

#	Article	IF	Citations
73	Intelligent Reflecting Surface Based Backscatter Communication for Data Offloading. IEEE Transactions on Communications, 2022, 70, 4211-4221.	4.9	12
74	Collaborative Computation Offloading at UAV-Enhanced Edge. , 2019, , .		11
75	Gait Learning Based Authentication for Intelligent Things. IEEE Transactions on Vehicular Technology, 2020, 69, 4450-4459.	3.9	11
76	Location Hijacking Attack in Software-Defined Spaceâ€“Airâ€“Ground-Integrated Vehicular Network. IEEE Internet of Things Journal, 2022, 9, 5971-5981.	5.5	11
77	Multitask Learning Assisted Driver Identity Authentication and Driving Behavior Evaluation. IEEE Transactions on Industrial Informatics, 2021, 17, 7093-7102.	7.2	11
78	SmartEar: Rhythm-Based Tap Authentication Using Earphone in Information-Centric Wireless Sensor Network. IEEE Internet of Things Journal, 2022, 9, 885-896.	5.5	11
79	Inter-Segment Gateway Selection for Transmission Energy Optimization in Space-Air-Ground Converged Network. , 2018, , .		10
80	The Prediction and Error Correction of Physiological Sign During Exercise Using Bayesian Combined Predictor and Naive Bayesian Classifier. IEEE Systems Journal, 2019, 13, 4410-4420.	2.9	9
81	Fault diagnosis of body sensor networks using hidden Markov model. Peer-to-Peer Networking and Applications, 2017, 10, 1285-1298.	2.6	8
82	An Experimental Study Towards Driver Identification for Intelligent and Connected Vehicles. , 2019, , .		7
83	Joint Computation Offloading and Resource Configuration in Ultra-Dense Edge Computing Networks: A Deep Reinforcement Learning Solution. , 2019, , .		7
84	An Experimental Study Towards the In-Vehicle Network of Intelligent and Connected Vehicles. , 2018, , .		6
85	Deep Reinforcement Learning for Securing Software-Defined Industrial Networks With Distributed Control Plane. IEEE Transactions on Industrial Informatics, 2022, 18, 4275-4285.	7.2	6
86	Deep Learning for Securing Software-Defined Industrial Internet of Things: Attacks and Countermeasures. IEEE Internet of Things Journal, 2022, 9, 11179-11189.	5.5	6
87	Multi-Access Edge Offloading Based on Physical Layer Security in C-V2X System. IEEE Transactions on Vehicular Technology, 2022, 71, 6912-6923.	3.9	6
88	Optimal Replica Distribution in Edge-Node-Assisted Cloud-P2P Platforms for Real-Time Streaming. IEEE Transactions on Vehicular Technology, 2018, 67, 8637-8646.	3.9	4
89	Optimal User Pairing and Power Allocation in 5G Satellite Random Access Networks. IEEE Transactions on Wireless Communications, 2022, 21, 4085-4097.	6.1	4
90	Automatic Detection for Privacy Violations in Android Applications. IEEE Internet of Things Journal, 2022, 9, 6159-6172.	5.5	3

#	Article	IF	Citations
91	Analyzing Hit Probability of Spatial Correlated Caching for Heterogeneous Mobile Edge Computing. , 2018, , .		2
92	PACE: Physically-Assisted Channel Estimation. IEEE Transactions on Wireless Communications, 2020, 19, 3769-3781.	6.1	2
93	CSEar: Metalearning for Head Gesture Recognition Using Earphones in Internet of Healthcare Things. IEEE Internet of Things Journal, 2022, 9, 23176-23187.	5.5	2
94	Deep Reinforcement Learning Based Task Offloading in SDN-Enabled Industrial Internet of Things. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 425-437.	0.2	1
95	Optimal False Data Injection Attacks on MTC. IEEE Transactions on Vehicular Technology, 2022, 71, 3372-3376.	3.9	1