

Feng Lyu

List of Publications by Year in descending order

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92
papers

3,415
citations

218677

26
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182427

51
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97
all docs

97
docs citations

97
times ranked

2557
citing authors

#	ARTICLE	IF	CITATIONS
1	Space/Aerial-Assisted Computing Offloading for IoT Applications: A Learning-Based Approach. IEEE Journal on Selected Areas in Communications, 2019, 37, 1117-1129.	14.0	542
2	Internet of vehicles in big data era. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 19-35.	13.1	440
3	Big Data Driven Vehicular Networks. IEEE Network, 2018, 32, 160-167.	6.9	231
4	SDN/NFV-Empowered Future IoV With Enhanced Communication, Computing, and Caching. Proceedings of the IEEE, 2020, 108, 274-291.	21.3	184
5	Deep Reinforcement Learning for Delay-Oriented IoT Task Scheduling in SAGIN. IEEE Transactions on Wireless Communications, 2021, 20, 911-925.	9.2	142
6	Characterizing Urban Vehicle-to-Vehicle Communications for Reliable Safety Applications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2586-2602.	8.0	126
7	Vehicular Communication Networks in the Automated Driving Era. IEEE Communications Magazine, 2018, 56, 26-32.	6.1	120
8	Optimal UAV Caching and Trajectory in Aerial-Assisted Vehicular Networks: A Learning-Based Approach. IEEE Journal on Selected Areas in Communications, 2020, 38, 2783-2797.	14.0	107
9	LeaD: Large-Scale Edge Cache Deployment Based on Spatio-Temporal WiFi Traffic Statistics. IEEE Transactions on Mobile Computing, 2021, 20, 2607-2623.	5.8	93
10	MoMAC: Mobility-Aware and Collision-Avoidance MAC for Safety Applications in VANETs. IEEE Transactions on Vehicular Technology, 2018, 67, 10590-10602.	6.3	82
11	SS-MAC: A Novel Time Slot-Sharing MAC for Safety Messages Broadcasting in VANETs. IEEE Transactions on Vehicular Technology, 2018, 67, 3586-3597.	6.3	76
12	Multi-Drone 3-D Trajectory Planning and Scheduling in Drone-Assisted Radio Access Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 8145-8158.	6.3	65
13	Toward Collision-Free and Efficient Coordination for Automated Vehicles at Unsignalized Intersection. IEEE Internet of Things Journal, 2019, 6, 10408-10420.	8.7	65
14	Cooperative Edge Caching With Location-Based and Popular Contents for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10291-10305.	6.3	62
15	Towards Rear-End Collision Avoidance: Adaptive Beacons for Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1248-1263.	8.0	61
16	UAV-Assisted Physical Layer Security in Multi-Beam Satellite-Enabled Vehicle Communications. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2739-2751.	8.0	59
17	AUCTION: Automated and Quality-Aware Client Selection Framework for Efficient Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1996-2009.	5.6	58
18	Edge Coordinated Query Configuration for Low-Latency and Accurate Video Analytics. IEEE Transactions on Industrial Informatics, 2020, 16, 4855-4864.	11.3	57

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19	FAIR: Quality-Aware Federated Learning with Precise User Incentive and Model Aggregation. , 2021, , .		56
20	Deep RL-based Trajectory Planning for AoI Minimization in UAV-assisted IoT. , 2019, , .		53
21	Joint Channel Allocation and Resource Management for Stochastic Computation Offloading in MEC. IEEE Transactions on Vehicular Technology, 2020, 69, 8900-8913.	6.3	47
22	Intelligent Context-Aware Communication Paradigm Design for IoVs Based on Data Analytics. IEEE Network, 2018, 32, 74-82.	6.9	38
23	Throughput Analysis of Vehicular Internet Access via Roadside WiFi Hotspot. IEEE Transactions on Vehicular Technology, 2019, 68, 3980-3991.	6.3	36
24	DBCC: Leveraging Link Perception for Distributed Beacon Congestion Control in VANETs. IEEE Internet of Things Journal, 2018, 5, 4237-4249.	8.7	35
25	Delay-Aware IoT Task Scheduling in Space-Air-Ground Integrated Network. , 2019, , .		30
26	Service-Oriented Dynamic Resource Slicing and Optimization for Space-Air-Ground Integrated Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 7469-7483.	8.0	30
27	6G service-oriented space-air-ground integrated network: A survey. Chinese Journal of Aeronautics, 2022, 35, 1-18.	5.3	30
28	Efficient Hybrid Beamforming With Anti-Blockage Design for High-Speed Railway Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 9643-9655.	6.3	28
29	Physical Layer Security Assisted Computation Offloading in Intelligently Connected Vehicle Networks. IEEE Transactions on Wireless Communications, 2021, 20, 3555-3570.	9.2	28
30	Secrecy Rate Analysis of Satellite Communications With Frequency Domain NOMA. IEEE Transactions on Vehicular Technology, 2019, 68, 11847-11858.	6.3	24
31	SHARE: Shaping Data Distribution at Edge for Communication-Efficient Hierarchical Federated Learning. , 2021, , .		23
32	Fine-Grained TDMA MAC Design toward Ultra-Reliable Broadcast for Autonomous Driving. IEEE Wireless Communications, 2019, 26, 46-53.	9.0	20
33	<i>NDN-MMRA</i>: Multi-Stage Multicast Rate Adaptation in Named Data Networking WLAN. IEEE Transactions on Multimedia, 2021, 23, 3250-3263.	7.2	20
34	ABC: Adaptive Beacon Control for Rear-End Collision Avoidance in VANETs. , 2018, , .		19
35	Enabling Security-Aware D2D Spectrum Resource Sharing for Connected Autonomous Vehicles. IEEE Internet of Things Journal, 2020, 7, 3799-3811.	8.7	18
36	Virtualized and Micro Services Provisioning in Space-Air-Ground Integrated Networks. IEEE Wireless Communications, 2020, 27, 68-74.	9.0	18

#	ARTICLE	IF	CITATIONS
37	Intelligent Link Adaptation in 802.11 Vehicular Networks: Challenges and Solutions. IEEE Communications Standards Magazine, 2019, 3, 12-18.	4.9	16
38	Named Data Networking Enabled Power Saving Mode Design for WLAN. IEEE Transactions on Vehicular Technology, 2020, 69, 901-913.	6.3	16
39	Max-Min Fairness for BeamSpace MIMO-NOMA: From Single-Beam to Multi-Beam. IEEE Transactions on Wireless Communications, 2022, 21, 739-752.	9.2	15
40	Large-Scale Full WiFi Coverage: Deployment and Management Strategy Based on User Spatio-Temporal Association Analytics. IEEE Internet of Things Journal, 2019, 6, 9386-9398.	8.7	14
41	Multi-Path Selection and Congestion Control for NDN: An Online Learning Approach. IEEE Transactions on Network and Service Management, 2021, 18, 1977-1989.	4.9	13
42	Adaptive Video Streaming Using Dynamic NDN Multicast in WLAN. , 2020, , .		12
43	Sequential Message Characterization for Early Classification of Encrypted Internet Traffic. IEEE Transactions on Vehicular Technology, 2021, 70, 3746-3760.	6.3	12
44	Max-Min Secrecy Rate for NOMA-Based UAV-Assisted Communications with Protected Zone. , 2019, , .		11
45	Edge Caching and Content Delivery with Minimized Delay for Both High-Speed Train and Local Users. , 2019, , .		11
46	RLSS: A Reinforcement Learning Scheme for HD Map Data Source Selection in Vehicular NDN. IEEE Internet of Things Journal, 2022, 9, 10777-10791.	8.7	11
47	An Efficient Two-Layer Task Offloading Scheme for MEC System with Multiple Services Providers. , 2022, , .		10
48	Online UAV Scheduling Towards Throughput QoS Guarantee for Dynamic IoVs. , 2019, , .		9
49	3D Multi-Drone-Cell Trajectory Design for Efficient IoT Data Collection. , 2019, , .		9
50	Joint Caching and Trajectory Design for Cache-Enabled UAV in Vehicular Networks. , 2019, , .		9
51	Intelligent Large-Scale AP Control with Remarkable Energy Saving in Campus WiFi System. , 2018, , .		8
52	Demystifying Traffic Statistics for Edge Cache Deployment in Large-Scale WiFi System. , 2019, , .		8
53	Online Worker Selection Towards High Quality Map Collection for Autonomous Driving. , 2019, , .		6
54	Multitype Highway Mobility Analytics for Efficient Learning Model Design: A Case of Station Traffic Prediction. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19484-19496.	8.0	6

#	ARTICLE	IF	CITATIONS
55	Cutting Down Idle Listening Time: A NDN-Enabled Power Saving Mode Design for WLAN. , 2019, , .		5
56	On Hybrid Beamforming of mmWave MU-MIMO System for High-Speed Railways. , 2019, , .		5
57	Asymptotic Optimal Edge Resource Allocation for Video Streaming via User Preference Prediction. , 2019, , .		5
58	Push the Limit of Multipath Profiling Using Commodity WiFi Devices With Limited Bandwidth. IEEE Transactions on Vehicular Technology, 2020, 69, 4142-4154.	6.3	5
59	Trajectory Penetration Characterization for Efficient Vehicle Selection in HD Map Crowdsourcing. IEEE Internet of Things Journal, 2021, 8, 4526-4539.	8.7	5
60	Low-Latency Edge Video Analytics for On-Road Perception of Autonomous Ground Vehicles. IEEE Transactions on Industrial Informatics, 2023, 19, 1512-1523.	11.3	5
61	Throughput Analysis of In-Vehicle Internet Access via On-Road WiFi Access Points. , 2017, , .		4
62	Big Data Analytics for User Association Characterization in Large-Scale WiFi System. , 2019, , .		4
63	FLAG: Flexible, Accurate, and Long-Time User Load Prediction in Large-Scale WiFi System Using Deep RNN. IEEE Internet of Things Journal, 2021, 8, 16510-16521.	8.7	4
64	Space-air-ground integrated networks for future IoT: Architecture, management, service and performance. Peer-to-Peer Networking and Applications, 2021, 14, 3265-3267.	3.9	4
65	QoE-driven Mobile 360 Video Streaming: Predictive View Generation and Dynamic Tile Selection. , 2021, , .		4
66	Power Allocation for Multi-Beam Max-Min Fairness in Millimeter-Wave BeamSpace MIMO-NOMA. , 2019, , .		3
67	Pilot Spoofing Attack Detection and Downlink Precoding in Massive MIMO Systems. , 2019, , .		3
68	Spectral Efficiency Analysis of SEFDM Systems with ICI Mitigation. , 2019, , .		3
69	SoSA: Socializing Static APs for Edge Resource Pooling in Large-Scale WiFi System. , 2020, , .		3
70	Multi-Dimensional Resource Allocation for Diverse Safety Message Transmissions in Vehicular Networks. , 2021, , .		3
71	Safety-Aware and Distributed Beacon Congestion Control. Wireless Networks, 2020, , 129-157.	0.5	3
72	Adaptive Resource Allocation for Diverse Safety Message Transmissions in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 13482-13497.	8.0	3

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73	Real-Time Search-Driven Caching for Sensing Data in Vehicular Networks. IEEE Internet of Things Journal, 2022, 9, 12219-12230.	8.7	3
74	Push the Limit of WiFi-based User Authentication towards Undefined Gestures. , 2022, , .		3
75	Dynamic Pricing Scheme for Edge Computing Services: A Two-layer Reinforcement Learning Approach. , 2022, , .		3
76	Leveraging Inner-Connection of Message Sequence for Traffic Classification: A Deep Learning Approach. , 2018, , .		2
77	Virtualization Enabled Multi-Point Cooperation with Convergence of Communication, Caching, and Computing. IEEE Network, 2020, 34, 94-100.	6.9	2
78	Cooperative Edge-Cloud Caching for Real-time Sensing Big Data Search in Vehicular Networks. , 2021, , .		2
79	Making resource adaptive to federated learning with COTS mobile devices. Peer-to-Peer Networking and Applications, 2022, 15, 1214-1231.	3.9	2
80	Resource-Efficient DNN Training and Inference for Heterogeneous Edge Intelligence in 6G. , 2021, , .		2
81	Boosting Internet Card Cellular Business via User Portraits: A Case of Churn Prediction. , 2022, , .		2
82	Load- and Mobility-Aware Cooperative Content Delivery in SAG Integrated Vehicular Networks. , 2021, , .		1
83	Characterizing Urban V2V Link Communications. Wireless Networks, 2020, , 77-99.	0.5	1
84	Optimal UAV Caching and Trajectory Design in the AGVN. SpringerBriefs in Computer Science, 2022, , 61-88.	0.2	1
85	Dynamic Spectrum Slicing and Optimization in SAG Integrated Vehicular Networks. , 2020, , .		1
86	DeepDelivery: Leveraging Deep Reinforcement Learning for Adaptive IoT Service Delivery. , 2021, , .		0
87	Vehicular Networking Techniques for Road-Safety Applications. Wireless Networks, 2020, , 11-23.	0.5	0
88	Mobility-Aware and Collision-Avoidance MAC Design. Wireless Networks, 2020, , 25-52.	0.5	0
89	Efficient and Scalable MAC Design. Wireless Networks, 2020, , 53-75.	0.5	0
90	Link-Aware Reliable Beaconing Scheme Design. Wireless Networks, 2020, , 101-127.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Delay-Minimized Mobile Edge Caching in the Terrestrial HetVNet. SpringerBriefs in Computer Science, 2022, , 35-59.	0.2	0
92	Multi-Objective Network Congestion Control via Constrained Reinforcement Learning. , 2021, , .		0