Xiuhua Li

List of Publications by Year
in descending order

74 papers	1,914 citations	361413 20 h-index	345221 36 g-index
74 all docs	74 docs citations	74 times ranked	2015 citing authors

#	Article	IF	Citations
1	Federated Deep Reinforcement Learning for Internet of Things With Decentralized Cooperative Edge Caching. IEEE Internet of Things Journal, 2020, 7, 9441-9455.	8.7	220
2	A Survey on Mobile Data Offloading Technologies. IEEE Access, 2018, 6, 5101-5111.	4.2	144
3	Artificial Intelligence-Based Techniques for Emerging Heterogeneous Network: State of the Arts, Opportunities, and Challenges. IEEE Access, 2015, 3, 1379-1391.	4.2	133
4	Deep Reinforcement Learning for Energy-Efficient Computation Offloading in Mobile-Edge Computing. IEEE Internet of Things Journal, 2022, 9, 1517-1530.	8.7	108
5	Hierarchical Edge Caching in Device-to-Device Aided Mobile Networks: Modeling, Optimization, and Design. IEEE Journal on Selected Areas in Communications, 2018, 36, 1768-1785.	14.0	98
6	Collaborative Multi-Tier Caching in Heterogeneous Networks: Modeling, Analysis, and Design. IEEE Transactions on Wireless Communications, 2017, 16, 6926-6939.	9.2	97
7	Data Offloading Techniques Through Vehicular Ad Hoc Networks: A Survey. IEEE Access, 2018, 6, 65250-65259.	4.2	91
8	Attention-Weighted Federated Deep Reinforcement Learning for Device-to-Device Assisted Heterogeneous Collaborative Edge Caching. IEEE Journal on Selected Areas in Communications, 2021, 39, 154-169.	14.0	74
9	Advances and Emerging Challenges in Cognitive Internet-of-Things. IEEE Transactions on Industrial Informatics, 2020, 16, 5489-5496.	11.3	61
10	Delay performance analysis of cooperative cell caching in future mobile networks. , 2015, , .		58
11	Joint User Association and User Scheduling for Load Balancing in Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2018, 17, 3211-3225.	9.2	51
12	CaaS: Caching as a Service for 5G Networks. IEEE Access, 2017, 5, 5982-5993.	4.2	46
13	STCS: Spatial-Temporal Collaborative Sampling in Flow-Aware Software Defined Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 999-1013.	14.0	43
14	Cooperative Computation Offloading for Multi-Access Edge Computing in 6G Mobile Networks via Soft Actor Critic. IEEE Transactions on Network Science and Engineering, 2024, , 1-1.	6.4	40
15	Energy Efficiency Optimization: Joint Antenna-Subcarrier-Power Allocation in OFDM-DASs. IEEE Transactions on Wireless Communications, 2016, 15, 7470-7483.	9.2	38
16	Intelligence-Empowered Mobile Edge Computing: Framework, Issues, Implementation, and Outlook. IEEE Network, 2021, 35, 74-82.	6.9	37
17	Federated-Learning-Empowered Collaborative Data Sharing for Vehicular Edge Networks. IEEE Network, 2021, 35, 116-124.	6.9	36
18	Towards Pricing for Sensor-Cloud. IEEE Transactions on Cloud Computing, 2020, 8, 1018-1029.	4.4	33

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19	Weighted network traffic offloading in cache-enabled heterogeneous networks. , 2016, , .		32
20	MALDI-TOF-MS analysis of small molecules using modified mesoporous material SBA-15 as assisted matrix. Journal of the American Society for Mass Spectrometry, 2009, 20, 2167-2173.	2.8	31
21	A Framework of Cooperative Cell Caching for the Future Mobile Networks. , 2015, , .		31
22	Caching-as-a-Service: Virtual caching framework in the cloud-based mobile networks. , 2015, , .		29
23	Caching Transient Content for IoT Sensing: Multi-Agent Soft Actor-Critic. IEEE Transactions on Communications, 2021, 69, 5886-5901.	7.8	29
24	Convergence of Recommender Systems and Edge Computing: A Comprehensive Survey. IEEE Access, 2020, 8, 47118-47132.	4.2	24
25	PA-Cache: Evolving Learning-Based Popularity- Aware Content Caching in Edge Networks. IEEE Transactions on Network and Service Management, 2021, 18, 1746-1757.	4.9	22
26	Trust assistance in Sensor-Cloud. , 2015, , .		21
27	Task Offloading for End-Edge-Cloud Orchestrated Computing in Mobile Networks. , 2020, , .		21
28	Job Scheduling for Cloud Computing Integrated with Wireless Sensor Network. , 2014, , .		19
29	DRL-SFCP: Adaptive Service Function Chains Placement with Deep Reinforcement Learning. , 2021, , .		19
30	Dynamic Spectrum Access Networks With Heterogeneous Users: How to Price the Spectrum?. IEEE Transactions on Vehicular Technology, 2018, 67, 5203-5216.	6.3	18
31	Joint Long-Term Cache Updating and Short-Term Content Delivery in Cloud-Based Small Cell Networks. IEEE Transactions on Communications, 2020, 68, 3173-3186.	7.8	17
32	A Fairness-Aware Pricing Methodology for Revenue Enhancement in Service Cloud Infrastructure. IEEE Systems Journal, 2017, 11, 1006-1017.	4.6	16
33	Spectrum Optimization for Satellite Communication Systems With Heterogeneous User Preferences. IEEE Systems Journal, 2020, 14, 2187-2191.	4.6	12
34	Q-Learning Based Edge Caching Optimization for D2D Enabled Hierarchical Wireless Networks. , 2018, , .		10
35	Resource allocation for cache-enabled cloud-based small cell networks. Computer Communications, 2018, 127, 20-29.	5.1	10
36	Self-Interference Cancellation with RF Impairments Suppression for Full-Duplex Systems. , 2015, , .		9

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37	Collaborative hierarchical caching for traffic offloading in heterogeneous networks. , 2017, , .		9
38	A Payment Channel Based Hybrid Decentralized Ethereum Token Exchange. , 2019, , .		9
39	Pricing Models for Sensor-Cloud. , 2015, , .		7
40	NA-Caching: An Adaptive Content Management Approach Based on Deep Reinforcement Learning. IEEE Access, 2019, 7, 152014-152022.	4.2	7
41	Socialized Learning for Smart Cities: Cognitive Paradigm, Methodology, and Solution. IEEE Wireless Communications, 2021, 28, 200-208.	9.0	7
42	Dependency-Aware Hybrid Task Offloading in Mobile Edge Computing Networks. , 2021, , .		7
43	TASA: traffic offloading by tag-assisted social-aware opportunistic sharing in mobile social networks. , 2015, , .		6
44	Joint User Association and Scheduling for Load Balancing in Heterogeneous Networks. , 2016, , .		6
45	A Secure and Scalable Data Communication Scheme in Smart Grids. Wireless Communications and Mobile Computing, 2018, 2018, 1-17.	1.2	6
46	Joint Long-Term Cache Allocation and Short-Term Content Delivery in Green Cloud Small Cell Networks. , 2019, , .		6
47	Mobility-Aware Content Caching and User Association for Ultra-Dense Mobile Edge Computing Networks. , 2020, , .		6
48	Deep Reinforcement Learning for IoT Networks: Age of Information and Energy Cost Tradeoff. , 2020, , .		6
49	Connecting latent relationships over heterogeneous attributed network for recommendation. Applied Intelligence, 2022, 52, 16214-16232.	5.3	5
50	Uplink Coordinated Scheduling Based on Resource Sorting. , 2012, , .		4
51	Optimizing power allocation in wireless networks: Are the implicit constraints really redundant?. Computer Communications, 2017, 111, 153-164.	5.1	4
52	Task Offloading for Automatic Speech Recognition in Edge-Cloud Computing Based Mobile Networks. , 2020, , .		4
53	GCN-TD: A Learning-based Approach for Service Function Chain Deployment on the Fly. , 2020, , .		4
54	DRL-D: Revenue-Aware Online Service Function Chain Deployment via Deep Reinforcement Learning. IEEE Transactions on Network and Service Management, 2022, 19, 4531-4545.	4.9	4

#	Article	IF	Citations
55	A General Matrix Factorization Framework for Recommender Systems in Multi-access Edge Computing Network. Mobile Networks and Applications, 0, , 1.	3.3	3
56	Sleeping Cell Detection for Resiliency Enhancements in 5G/B5G Mobile Edge-Cloud Computing Networks. ACM Transactions on Sensor Networks, 2022, 18, 1-30.	3.6	3
57	Max-Min Fair Resource Allocation for Min-Rate Guaranteed Services in Distributed Antenna Systems. , 2014, , .		2
58	Hybrid-Optimization-Based Power Allocation for Cognitive Relay Transmission. , 2014, , .		2
59	Opportunistic fair resource sharing with secrecy considerations in uplink wiretap channels. , 2015, , .		2
60	On Critical Density for Coverage and Connectivity in Directional Sensor Network Using Continuum Percolation. , 2015, , .		2
61	Design and Implementation of the NB-IoT Downlink System on OpenAirInterface Platform. , 2018, , .		2
62	An Optimal PSM Duration Dalculation Algorithm For NB-IoT. , 2019, , .		2
63	Energy-Time Efficient Task Offloading for Mobile Edge Computing in Hot-Spot Scenarios. , 2021, , .		2
64	Policy Network Assisted Monte Carlo Tree Search for Intelligent Service Function Chain Deployment. , 2021, , .		2
65	Task Offloading for Deep Learning Empowered Automatic Speech Analysis in Mobile Edge-Cloud Computing Networks. IEEE Transactions on Cloud Computing, 2023, 11, 1985-1998.	4.4	2
66	Robust Optimization of SC-FDE-Based Multihop DF Relay Systems With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2017, 66, 2862-2867.	6.3	1
67	Resource Allocation for Content Delivery in Cache-Enabled OFDMA Small Cell Networks. , 2017, , .		1
68	Popularity-prediction-driven hierarchical caching in fog-cloud based radio access networks. , 2019, , .		1
69	Exploiting Mobile Social Networks From Temporal Perspective: A Survey. IEEE Access, 2019, 7, 180818-180834.	4.2	1
70	Ensemble Learning Based Sleeping Cell Detection in Cloud Radio Access Networks. , 2020, , .		1
71	Power optimization in cognitive networks with hybrid intelligent algorithms. , 2015, , .		0
72	Transmit-time allocation in wireless sensor relay transmission with energy fairness. , 2015, , .		0

#	Article	IF	Citations
73	Mobile Edge Caching in HetNets. , 2018, , 1-5.		0
74	Mobile Edge Caching in HetNets. , 2020, , 868-873.		0