

Xiaofei Wang

List of Publications by Year in descending order

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77
papers

4,373
citations

304743

22
h-index

206112

48
g-index

77
all docs

77
docs citations

77
times ranked

4063
citing authors

#	ARTICLE	IF	CITATIONS
1	Cache in the air: exploiting content caching and delivery techniques for 5G systems. , 2014, 52, 131-139.		920
2	Convergence of Edge Computing and Deep Learning: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 869-904.	39.4	776
3	In-Edge AI: Intelligentizing Mobile Edge Computing, Caching and Communication by Federated Learning. IEEE Network, 2019, 33, 156-165.	6.9	645
4	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
5	Artificial Intelligence-Based Techniques for Emerging Heterogeneous Network: State of the Arts, Opportunities, and Challenges. IEEE Access, 2015, 3, 1379-1391.	4.2	133
6	D2D Big Data: Content Deliveries over Wireless Device-to-Device Sharing in Large-Scale Mobile Networks. IEEE Wireless Communications, 2018, 25, 32-38.	9.0	128
7	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
8	Collaborative Multi-Tier Caching in Heterogeneous Networks: Modeling, Analysis, and Design. IEEE Transactions on Wireless Communications, 2017, 16, 6926-6939.	9.2	97
9	TOSS: Traffic offloading by social network service-based opportunistic sharing in mobile social networks. , 2014, , .		94
10	Smart Home 2.0: Innovative Smart Home System Powered by Botanical IoT and Emotion Detection. Mobile Networks and Applications, 2017, 22, 1159-1169.	3.3	87
11	Cognitive-LPWAN: Towards Intelligent Wireless Services in Hybrid Low Power Wide Area Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 409-417.	5.5	86
12	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
13	Networking Integrated Cloud-Edge-End in IoT: A Blockchain-Assisted Collective Q-Learning Approach. IEEE Internet of Things Journal, 2021, 8, 12694-12704.	8.7	67
14	EC-SAGINs: Edge-Computing-Enhanced Space-Air-Ground-Integrated Networks for Internet of Vehicles. IEEE Internet of Things Journal, 2022, 9, 5742-5754.	8.7	59
15	Delay performance analysis of cooperative cell caching in future mobile networks. , 2015, , .		58
16	Computation Offloading with Multiple Agents in Edge-Computing-Supported IoT. ACM Transactions on Sensor Networks, 2020, 16, 1-27.	3.6	57
17	Tag-assisted social-aware opportunistic device-to-device sharing for traffic offloading in mobile social networks. IEEE Wireless Communications, 2016, 23, 60-67.	9.0	50
18	CaaS: Caching as a Service for 5G Networks. IEEE Access, 2017, 5, 5982-5993.	4.2	46

#	ARTICLE	IF	CITATIONS
19	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
20	AI-Chain: Blockchain Energized Edge Intelligence for Beyond 5G Networks. IEEE Network, 2020, 34, 62-69.	6.9	40
21	Energy Efficiency Optimization: Joint Antenna-Subcarrier-Power Allocation in OFDM-DASs. IEEE Transactions on Wireless Communications, 2016, 15, 7470-7483.	9.2	38
22	Multitask Offloading Strategy Optimization Based on Directed Acyclic Graphs for Edge Computing. IEEE Internet of Things Journal, 2022, 9, 9367-9378.	8.7	38
23	Federated-Learning-Empowered Collaborative Data Sharing for Vehicular Edge Networks. IEEE Network, 2021, 35, 116-124.	6.9	36
24	Weighted network traffic offloading in cache-enabled heterogeneous networks. , 2016, , .		32
25	A Framework of Cooperative Cell Caching for the Future Mobile Networks. , 2015, , .		31
26	Tailored Learning-Based Scheduling for Kubernetes-Oriented Edge-Cloud System. , 2021, , .		30
27	Virtual Machine Placement Optimization in Mobile Cloud Gaming Through QoE-Oriented Resource Competition. IEEE Transactions on Cloud Computing, 2022, 10, 2204-2218.	4.4	28
28	A backoff algorithm based on self-adaptive contention window update factor for IEEE 802.11 DCF. Wireless Networks, 2017, 23, 749-758.	3.0	25
29	Deep Reinforcement Learning for Cooperative Edge Caching in Future Mobile Networks. , 2019, , .		22
30	Edge AI. , 2020, , .		22
31	Serendipity of Sharing: Large-Scale Measurement and Analytics for Device-to-Device (D2D) Content Sharing in Mobile Social Networks. , 2017, , .		20
32	Distributed Pregel-based provenance-aware regular path query processing on RDF knowledge graphs. World Wide Web, 2020, 23, 1465-1496.	4.0	20
33	Quality-of-Experience Optimization for a Cloud Gaming System With <i>Ad Hoc</i> Cloudlet Assistance. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 2092-2104.	8.3	18
34	SimEdgeIntel: A open-source simulation platform for resource management in edge intelligence. Journal of Systems Architecture, 2021, 115, 102016.	4.3	18
35	Cognitive Resource Optimization for the Decomposed Cloud Gaming Platform. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 2038-2051.	8.3	16
36	A Fairness-Aware Pricing Methodology for Revenue Enhancement in Service Cloud Infrastructure. IEEE Systems Journal, 2017, 11, 1006-1017.	4.6	16

#	ARTICLE	IF	CITATIONS
37	QoS-aware energy-efficient resource allocation in OFDM-based heterogeneous cellular networks. International Journal of Communication Systems, 2017, 30, e2931.	2.5	15
38	A measurement study of device-to-device sharing in mobile social networks based on <i>Spark</i>. Concurrency Computation Practice and Experience, 2017, 29, e4021.	2.2	13
39	Integrating Edge Intelligence and Blockchain: What, Why, and How. IEEE Communications Surveys and Tutorials, 2022, 24, 2193-2229.	39.4	13
40	Q-Learning Based Edge Caching Optimization for D2D Enabled Hierarchical Wireless Networks. , 2018, , .		10
41	Resource allocation for cache-enabled cloud-based small cell networks. Computer Communications, 2018, 127, 20-29.	5.1	10
42	Hierarchical Reinforcement Learning for Blockchain-Assisted Software Defined Industrial Energy Market. IEEE Transactions on Industrial Informatics, 2022, 18, 6100-6108.	11.3	9
43	Large Scale Measurement and Analytics on Social Groups of Device-to-Device Sharing in Mobile Social Networks. Mobile Networks and Applications, 2018, 23, 203-215.	3.3	8
44	Edge Caching for D2D Enabled Hierarchical Wireless Networks with Deep Reinforcement Learning. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	1.2	8
45	Guest Editorial: Special Issue on Blockchain and Edge Computing Techniques for Emerging IoT Applications. IEEE Internet of Things Journal, 2021, 8, 2082-2086.	8.7	7
46	Socialized Learning for Smart Cities: Cognitive Paradigm, Methodology, and Solution. IEEE Wireless Communications, 2021, 28, 200-208.	9.0	7
47	Learn to Coordinate for Computation Offloading and Resource Allocation in Edge Computing: A Rational-Based Distributed Approach. IEEE Transactions on Network Science and Engineering, 2022, 9, 3136-3151.	6.4	7
48	TASA: traffic offloading by tag-assisted social-aware opportunistic sharing in mobile social networks. , 2015, , .		6
49	Collaborative hierarchical caching in cloud radio access networks. , 2017, , .		6
50	Integrating Social Networks with Mobile Device-to-Device Services. IEEE Transactions on Services Computing, 2021, 14, 1209-1223.	4.6	6
51	Resource Management and Pricing for Cloud Computing Based Mobile Blockchain With Pooling. IEEE Transactions on Cloud Computing, 2023, 11, 128-138.	4.4	6
52	Multi-Community Influence Maximization in Device-to-Device social networks. Knowledge-Based Systems, 2021, 221, 106944.	7.1	6
53	Spark-Based Measurement and Analysis on Offline Mobile Application Market over Device-to-Device Sharing in Mobile Social Networks. , 2017, , .		5
54	Adaptive and Collaborative Edge Inference in Task Stream with Latency Constraint. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
55	COMER: Cloud-based medicine recommendation. , 2014, , .		4
56	Optimizing power allocation in wireless networks: Are the implicit constraints really redundant?. Computer Communications, 2017, 111, 153-164.	5.1	4
57	PAIRPQ: An Efficient Path Index for Regular Path Queries on Knowledge Graphs. Lecture Notes in Computer Science, 2021, , 106-120.	1.3	4
58	Edge Caching via Content Offloading in Heterogeneous Mobile Opportunistic Networks. , 2018, , .		3
59	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
60	Cluster-based content caching driven by popularity prediction. CCF Transactions on High Performance Computing, 2022, 4, 357-366.	1.7	3
61	EdgeMatrix: A Resources Redefined Edge-Cloud System for Prioritized Services. , 2022, , .		3
62	Reputation-based multiplayer fairness for ad-hoc cloudlet-assisted cloud gaming system. , 2014, , .		2
63	Guest Editorial Special Issue on Software Defined Networking for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 1347-1350.	8.7	2
64	Measurement and analysis on large-scale offline mobile app dissemination over device-to-device sharing in mobile social networks. World Wide Web, 2020, 23, 2363-2389.	4.0	2
65	Energy-Time Efficient Task Offloading for Mobile Edge Computing in Hot-Spot Scenarios. , 2021, , .		2
66	Resource Allocation for Content Delivery in Cache-Enabled OFDMA Small Cell Networks. , 2017, , .		1
67	Popularity-prediction-driven hierarchical caching in fog-cloud based radio access networks. , 2019, , .		1
68	Anchored User Selection for Traffic Offloading Optimization in D2D-Aided Mobile-Edge Computing. IEEE Internet of Things Journal, 2021, 8, 16911-16920.	8.7	1
69	Artificial Intelligence for Optimizing Edge. , 2020, , 117-134.		1
70	Content Sharing Prediction for Device-to-Device (D2D)-based Offline Mobile Social Networks by Network Representation Learning. Lecture Notes in Computer Science, 2020, , 112-126.	1.3	1
71	MGFL: Multi-granularity Federated Learning in Edge Computing Systems. Lecture Notes in Computer Science, 2022, , 549-563.	1.3	1
72	Foreword to the special issue on networked system security and efficiency. Concurrency Computation Practice and Experience, 2017, 29, e4227.	2.2	0

#	ARTICLE	IF	CITATIONS
73	Mobile Edge Caching in HetNets. , 2018, , 1-5.		0
74	Improved Flow Awareness Among Edge Nodes by Learning-Based Sampling in Software Defined Networks. Mobile Networks and Applications, 2022, 27, 1867-1879.	3.3	0
75	Resource Trading with Hierarchical Game for Computing-Power Network Market. Lecture Notes in Computer Science, 2021, , 94-109.	1.3	0
76	Spatial-Temporal-Correlation Multi-Feature-based Project Engineering and Prediction in Smart Grid. , 2021, , .		0
77	Mobile Edge Caching in HetNets. , 2020, , 868-873.		0