Tao Huang

List of Publications by Year
in descending order

86 papers	2,590 citations	304743 22 h-index	206112 48 g-index
86 all docs	86 docs citations	86 times ranked	2558 citing authors

#	Article	IF	Citations
1	A Survey of Blockchain Technology Applied to Smart Cities: Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 2794-2830.	39.4	477
2	A Survey of Machine Learning Techniques Applied to Software Defined Networking (SDN): Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 393-430.	39.4	418
3	A Survey of Green Information-Centric Networking: Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2015, 17, 1455-1472.	39.4	179
4	Satellite-Terrestrial Integrated Edge Computing Networks: Architecture, Challenges, and Open Issues. IEEE Network, 2020, 34, 224-231.	6.9	125
5	Load Balancing in Data Center Networks: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 2324-2352.	39.4	115
6	A Comprehensive Survey on Blockchain in Industrial Internet of Things: Motivations, Research Progresses, and Future Challenges. IEEE Communications Surveys and Tutorials, 2022, 24, 88-122.	39.4	93
7	Enabling Efficient Service Function Chaining by Integrating NFV and SDN: Architecture, Challenges and Opportunities. IEEE Network, 2018, 32, 152-159.	6.9	75
8	Software Defined Networking, Caching, and Computing for Green Wireless Networks. , 2016, 54, 185-193.		72
9	Deep Reinforcement Learning (DRL)-Based Device-to-Device (D2D) Caching With Blockchain and Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2020, 19, 6469-6485.	9.2	59
10	When Serverless Computing Meets Edge Computing: Architecture, Challenges, and Open Issues. IEEE Wireless Communications, 2021, 28, 126-133.	9.0	58
11	Transport Control Strategies in Named Data Networking: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2052-2083.	39.4	54
12	Joint Resource Allocation for Software-Defined Networking, Caching, and Computing. IEEE/ACM Transactions on Networking, 2018, 26, 274-287.	3.8	54
13	Decentralized Computation Offloading in IoT Fog Computing System With Energy Harvesting: A Dec-POMDP Approach. IEEE Internet of Things Journal, 2020, 7, 4898-4911.	8.7	46
14	Sailfish. , 2021, , .		45
15	Collaborative Vehicular Edge Computing Networks: Architecture Design and Research Challenges. IEEE Access, 2019, 7, 178942-178952.	4.2	44
16	Service Function Chain Composition, Placement, and Assignment in Data Centers. IEEE Transactions on Network and Service Management, 2019, 16, 1638-1650.	4.9	32
17	Integrating Edge Computing into Low Earth Orbit Satellite Networks: Architecture and Prototype. IEEE Access, 2021, 9, 39126-39137.	4.2	32
18	Energyâ€efficient computation offloading in 5G cellular networks with edge computing and D2D communications. IET Communications, 2019, 13, 1122-1130.	2.2	31

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19	The Collaboration for Content Delivery and Network Infrastructures: A Survey. IEEE Access, 2017, 5, 18088-18106.	4.2	29
20	Dynamic Computation Offloading in IoT Fog Systems With Imperfect Channel-State Information: A POMDP Approach. IEEE Internet of Things Journal, 2021, 8, 345-356.	8.7	29
21	Potential Identity Resolution Systems for the Industrial Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 391-430.	39.4	27
22	A Load Balancing Routing Strategy for LEO Satellite Network. IEEE Access, 2020, 8, 155136-155144.	4.2	26
23	An Integrated Framework for Software Defined Networking, Caching, and Computing. IEEE Network, 2017, 31, 46-55.	6.9	24
24	Blockchain-Incentivized D2D and Mobile Edge Caching: A Deep Reinforcement Learning Approach. IEEE Network, 2020, 34, 150-157.	6.9	24
25	A new algorithm based on the proximity principle for the virtual network embedding problem. Journal of Zhejiang University: Science C, 2011, 12, 910-918.	0.7	18
26	Requirements-Driven Automotive Electrical/Electronic Architecture: A Survey and Prospective Trends. IEEE Access, 2021, 9, 100096-100112.	4.2	18
27	Buffer-Aware Virtual Reality Video Streaming With Personalized and Private Viewport Prediction. IEEE Journal on Selected Areas in Communications, 2022, 40, 694-709.	14.0	17
28	Virtual network embedding based on real-time topological attributes. Frontiers of Information Technology and Electronic Engineering, 2015, 16, 109-118.	2.6	16
29	Quantum Collective Learning and Many-to-Many Matching Game in the Metaverse for Connected and Autonomous Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 12128-12139.	6.3	16
30	Building SDN-Based Agricultural Vehicular Sensor Networks Based on Extended Open vSwitch. Sensors, 2016, 16, 108.	3.8	15
31	Jointly caching and computation resource allocation for mobile edge networks. IET Networks, 2019, 8, 329-338.	1.8	15
32	Virtual Resource Organization and Virtual Network Embedding across Multiple Domains. , 2010, , .		13
33	Modeling the sojourn time of items for in-network cache based on LRU policy. China Communications, 2014, 11, 88-95.	3.2	13
34	Cycle-Based Time-Sensitive and Deterministic Networks: Architecture, Challenges, and Open Issues. IEEE Communications Magazine, 2022, 60, 81-87.	6.1	13
35	Caching resource sharing in radio access networks: a game theoretic approach. Frontiers of Information Technology and Electronic Engineering, 2016, 17, 1253-1265.	2.6	12
36	Multi-Attributes-Based Coflow Scheduling Without Prior Knowledge. IEEE/ACM Transactions on Networking, 2018, 26, 1962-1975.	3.8	12

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37	Multi-Factorial Energy Aware Resource Management in Edge Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 45-56.	5.5	12
38	Learning-Based Computation Offloading for IoRT Through Ka/Q-Band Satellite–Terrestrial Integrated Networks. IEEE Internet of Things Journal, 2022, 9, 12056-12070.	8.7	12
39	Dynamic recovery for survivable virtual network embedding. Journal of China Universities of Posts and Telecommunications, 2014, 21, 77-84.	0.8	11
40	What to cache: differentiated caching resource allocation and management in information-centric networking. China Communications, 2016, 13, 261-276.	3.2	11
41	FlowTrace: measuring round-trip time and tracing path in software-defined networking with low communication overhead. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 206-219.	2.6	11
42	Energy-efficient joint content caching and small base station activation mechanism design in heterogeneous cellular networks. China Communications, 2017, 14, 70-83.	3.2	11
43	Popularity based probabilistic caching strategy design for named data networking. , 2017, , .		10
44	Energy-Efficient Joint Caching and Transcoding for HTTP Adaptive Streaming in 5G Networks with Mobile Edge Computing. , 2018, , .		10
45	Fast Switch-Based Load Balancer Considering Application Server States. IEEE/ACM Transactions on Networking, 2020, 28, 1391-1404.	3.8	10
46	DENA: An Intelligent Content Discovery System Used in Named Data Networking. IEEE Access, 2016, 4, 9093-9107.	4.2	9
47	Hierarchical collaborative caching in 5G networks. IET Communications, 2018, 12, 2357-2365.	2.2	9
48	Energy‐efficient hierarchical cooperative caching optimisation for 5G networks. IET Communications, 2019, 13, 687-695.	2.2	9
49	Measures to Improve the Accuracy and Reliability of Clock Synchronization in Time-Sensitive Networking. IEEE Access, 2020, 8, 192368-192378.	4.2	9
50	A Blockchain-Enabled Trusted Identifier Co-Governance Architecture for the Industrial Internet of Things. IEEE Communications Magazine, 2022, 60, 66-72.	6.1	9
51	Multi-Domain SDN Survivability for Agricultural Wireless Sensor Networks. Sensors, 2016, 16, 1861.	3.8	8
52	FSDM: Floodless service discovery model based on Software-Defined Network. , 2013, , .		6
53	A Parallel Placement Approach for Service Function Chain Using Deep Reinforcement Learning. , 2019, , .		6
54	Dynamic Computation Offloading With Imperfect State Information in Energy Harvesting Small Cell Networks: A Partially Observable Stochastic Game. IEEE Wireless Communications Letters, 2020, 9, 1300-1304.	5.0	6

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55	A Hierarchical Virtual Resource Management Architecture for Network Virtualization. , 2010, , .		5
56	Reverse-trace routing scheme in content centric networking. Journal of China Universities of Posts and Telecommunications, 2013, 20, 22-29.	0.8	5
57	Congestion-aware adaptive forwarding in datacenter networks. Computer Communications, 2015, 62, 34-46.	5.1	5
58	Leveraging multiple coflow attributes for information-agnostic coflow scheduling. , 2017, , .		5
59	Service-differentiated QoS routing based on ant colony optimisation for named data networking. Peer-to-Peer Networking and Applications, 2019, 12, 740-750.	3.9	5
60	A virtual network mapping algorithm based on integer programming. Journal of Zhejiang University: Science C, 2013, 14, 899-908.	0.7	4
61	Updating Data-Center Network With Ultra-Low Latency Data Plane. IEEE Access, 2020, 8, 2134-2144.	4.2	4
62	A-ECN Minimizing Queue Length for Datacenter Networks. IEEE Access, 2020, 8, 49100-49111.	4.2	4
63	An Accelerating Approach for Blockchain Information Transmission Based on NDN. Future Internet, 2021, 13, 47.	3.8	4
64	A novel identity resolution system design based on Dual-Chord algorithm for industrial Internet of Things. Science China Information Sciences, 2021, 64, 1.	4.3	4
65	Caching Design in Green Content Centric Networking Based on Chemical Reaction Optimization. , 2013, , .		3
66	NB-Cache: Non-Blocking In-Network Caching for High-Performance Content Routers. IEEE/ACM Transactions on Networking, 2021, 29, 1976-1989.	3.8	3
67	Determining Delay Bounds for a Chain of Virtual Network Functions Using Network Calculus. IEEE Communications Letters, 2021, 25, 2550-2553.	4.1	3
68	A blockchain-based and privacy-preserved authentication scheme for inter-constellation collaboration in Space-Ground Integrated Networks. Computer Networks, 2022, 206, 108793.	5.1	3
69	A Computation Offloading Strategy in LEO Constellation Edge Cloud Network. Electronics (Switzerland), 2022, 11, 2024.	3.1	3
70	The Decision Latency Optimization Problem in SDN With Multi-Controller. IEEE Communications Letters, 2019, 23, 2344-2347.	4.1	2
71	Improving Flow Scheduling Scheme With Mix-Traffic in Multi-Tenant Data Centers. IEEE Access, 2020, 8, 64666-64677.	4.2	2
72	NSE-RRS: Network Slicing Embedding With Risk-Controlled Resource Sharing. IEEE Access, 2021, 9, 104448-104459.	4.2	2

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73	Efficient Uplink Transmission in Ultra-Dense LEO Satellite Networks With Multiband Antennas. IEEE Communications Letters, 2022, 26, 1373-1377.	4.1	2
74	A Hierarchical Backbone Network Based on VLB Architecture. , 2010, , .		1
75	Status-Based Content Sharing Mechanism for Content-Centric Network. , 2012, , .		1
76	Time Efficient Virtual Network Embedding Algorithm. Intelligent Automation and Soft Computing, 2016, 22, 273-280.	2.1	1
77	LD-ICN: Towards Latency Deterministic Information-Centric Networking. , 2019, , .		1
78	Automating Rapid Network Anomaly Detection with In-band Network Telemetry. IEEE Networking Letters, 2021, , 1-1.	1.9	1
79	Cooperative Task Processing for the Internet of Remote Things through Ultra-Dense Satellite Systems. , 2021, , .		1
80	An NDN-Enabled Differentiated Routing Strategy for Blockchain. , 2022, , .		1
81	A Future Network Architecture for Resource Sharing and Service Diversity. , 2010, , .		0
82	An efficient Virtual Network embedding algorithm based on subgraph. , 2014, , .		0
83	Storage space adjustment for replication placement in Service-Oriented Future Internet Architecture. , 2014, , .		0
84	A Dual Decomposition Method for Hierarchical Traffic Control in Inter-DC WANs. , 2019, , .		0
85	Adaptive Resource Allocation of Vehicles under Dynamic Environment. Wireless Communications and Mobile Computing, 2022, 2022, 1-13.	1.2	0
86	RCC: Enabling Receiver-Driven RDMA Congestion Control With Congestion Divide-and-Conquer in Datacenter Networks. IEEE/ACM Transactions on Networking, 2023, 31, 103-117.	3.8	0