

# Ziyu Shao

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

816  
citations

932766

10  
h-index

794141

19  
g-index

53  
all docs

53  
docs citations

53  
times ranked

767  
citing authors

#	ARTICLE	IF	CITATIONS
1	Markov Approximation for Combinatorial Network Optimization. IEEE Transactions on Information Theory, 2013, 59, 6301-6327.	1.5	143
2	PORA: Predictive Offloading and Resource Allocation in Dynamic Fog Computing Systems. IEEE Internet of Things Journal, 2020, 7, 72-87.	5.5	76
3	Linear Network Coding: Theory and Algorithms. Proceedings of the IEEE, 2011, 99, 372-387.	16.4	73
4	Markov Approximation for Combinatorial Network Optimization. , 2010, , .		61
5	FEMOS: Fog-Enabled Multitier Operations Scheduling in Dynamic Wireless Networks. IEEE Internet of Things Journal, 2018, 5, 1169-1183.	5.5	61
6	Online Task Scheduling and Resource Allocation for Intelligent NOMA-Based Industrial Internet of Things. IEEE Journal on Selected Areas in Communications, 2020, 38, 803-815.	9.7	57
7	POST: Parallel Offloading of Splittable Tasks in Heterogeneous Fog Networks. IEEE Internet of Things Journal, 2020, 7, 3170-3183.	5.5	56
8	Learning-Based Task Offloading for Delay-Sensitive Applications in Dynamic Fog Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 11399-11403.	3.9	46
9	Dynamic switch-controller association and control devolution for SDN systems. , 2017, , .		23
10	Optimal distributed P2P streaming under node degree bounds. , 2010, , .		19
11	Cross-Layer Optimization for Wireless Networks With Deterministic Channel Models. IEEE Transactions on Information Theory, 2011, 57, 5840-5862.	1.5	14
12	PORA: Predictive Offloading and Resource Allocation in Dynamic Fog Computing Systems. , 2019, , .		12
13	Multi-User Linear Precoding for Downlink Generalized Spatial Modulation Systems. IEEE Communications Letters, 2020, 24, 212-216.	2.5	12
14	Online User-AP Association with Predictive Scheduling in Wireless Caching Networks. , 2017, , .		11
15	Service Chain Composition With Resource Failures in NFV Systems: A Game-Theoretic Perspective. IEEE Transactions on Network and Service Management, 2021, 18, 224-239.	3.2	11
16	History-Aware Online Cache Placement in Fog-Assisted IoT Systems: An Integration of Learning and Control. IEEE Internet of Things Journal, 2021, 8, 14683-14704.	5.5	10
17	ARM: Anonymous Rating Mechanism for Discrete Power Control. IEEE Transactions on Mobile Computing, 2017, 16, 326-340.	3.9	9
18	Online VNF Chaining and Predictive Scheduling: Optimality and Trade-Offs. IEEE/ACM Transactions on Networking, 2021, 29, 1867-1880.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Reverse-engineering BitTorrent: A Markov approximation perspective. , 2012, , .		8
20	Predictive switch-controller association and control devolution for SDN systems. , 2019, , .		8
21	Proactive Cache Placement with Bandit Learning in Fog-Assisted IoT Systems. , 2020, , .		8
22	Neural Task Scheduling with Reinforcement Learning for Fog Computing Systems. , 2019, , .		7
23	Service Chain Composition with Failures in NFV Systems: A Game-Theoretic Perspective. , 2019, , .		6
24	An Efficient Distributed Deep Learning Framework for Fog-Based IoT Systems. , 2019, , .		6
25	Online VNF Chaining and Scheduling with Prediction: Optimality and Trade-Offs. , 2019, , .		6
26	Predictive Switch-Controller Association and Control Devolution for SDN Systems. IEEE/ACM Transactions on Networking, 2020, 28, 2783-2796.	2.6	6
27	To Code or Not to Code: Rate Optimality of Network Coding versus Routing in Peer-to-Peer Networks. IEEE Transactions on Communications, 2011, 59, 948-954.	4.9	5
28	An optimized distributed video-on-demand streaming system: Theory and design. , 2012, , .		5
29	Multi-Interface Channel Allocation in Fog Computing Systems using Thompson Sampling. , 2020, , .		4
30	An Integration of Online Learning and Online Control for Green Offloading in Fog-Assisted IoT Systems. IEEE Transactions on Green Communications and Networking, 2021, 5, 1632-1646.	3.5	4
31	Cross-layer Optimization for Wireless Networks with Deterministic Channel Models. , 2010, , .		3
32	MIPS: Instance Placement for Stream Processing Systems Based on Monte Carlo Tree Search. , 2019, , .		3
33	Dynamic Tuple Scheduling with Prediction for Data Stream Processing Systems. , 2019, , .		3
34	Joint Switch-Controller Association and Control Devolution for SDN Systems: An Integration of Online Control and Online Learning. , 2020, , .		3
35	Distributed Task Scheduling in Heterogeneous Fog Networks: A Matching with Externalities Method. , 2020, , .		3
36	Learning-Aided Content Placement in Caching-Enabled fog Computing Systems Using Thompson Sampling. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
37	POTUS: Predictive Online Tuple Scheduling for Data Stream Processing Systems. IEEE Transactions on Cloud Computing, 2022, 10, 2863-2875.	3.1	3
38	Joint Switch-Controller Association and Control Devolution for SDN Systems: An Integrated Online Perspective of Control and Learning. IEEE Transactions on Network and Service Management, 2021, 18, 315-330.	3.2	3
39	OCDST: Offloading Chained DNNs for Streaming Tasks. , 2021, , .		3
40	ARM: Anonymous rating mechanism for discrete power control. , 2015, , .		2
41	Computation Offloading Game for Multi-Task Multi-Helper Fog Networks. , 2019, , .		2
42	Systematic Topology Design for Large-Scale Networks: A Unified Framework. , 2020, , .		2
43	Green Offloading in Fog-Assisted IoT Systems: An Online Perspective Integrating Learning and Control. , 2020, , .		2
44	Distributed Optimization for Combinatorial Coding Subgraph Selection Problems. , 2011, , .		1
45	Online Task Offloading with Bandit Learning in Fog-Assisted IoT Systems. , 2019, , .		1
46	Green Edge Intelligence Scheme for Mobile Keyboard Emoji Prediction. , 2021, , .		1
47	Multi-Interface Channel Allocation in Fog Computing Systems Using Thompson Sampling. IEEE Internet of Things Journal, 2021, 8, 13542-13554.	5.5	1
48	Decentralized Multi-Agent Bandit Learning for Intelligent Internet of Things Systems. , 2022, , .		1
49	To code or not to code: Rate optimality in node-capacitated networks. , 2009, , .		0
50	The promise of network coding. , 2009, , .		0
51	Learning-Aided Online Task Offloading for UAVs-Aided IoT Systems. , 2019, , .		0
52	Online User-AP Association with Predictive Scheduling in Wireless Caching Networks. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	0