

Deze Zeng

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,230
citations

201575

27
h-index

155592

55
g-index

101
all docs

101
docs citations

101
times ranked

3343
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge-Assisted Short Video Sharing With Guaranteed Quality-of-Experience. IEEE Transactions on Cloud Computing, 2023, 11, 13-24.	3.1	6
2	State-Estimation-Based Control Strategy Design for Connected Cruise Control With Delays. IEEE Systems Journal, 2023, 17, 99-110.	2.9	6
3	Adaptive Federated Learning on Non-IID Data With Resource Constraint. IEEE Transactions on Computers, 2022, 71, 1655-1667.	2.4	36
4	Security and Privacy-Enhanced Federated Learning for Anomaly Detection in IoT Infrastructures. IEEE Transactions on Industrial Informatics, 2022, 18, 3492-3500.	7.2	75
5	Adaptive Resource Efficient Microservice Deployment in Cloud-Edge Continuum. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1825-1840.	4.0	40
6	Sensing or Transmission? Stochastic Scheduling of Energy-Harvesting Sensors Toward Zero-Carbon IoT. IEEE Transactions on Green Communications and Networking, 2022, 6, 1132-1140.	3.5	6
7	Stackelberg-Game-Based Computation Offloading Method in Cloud-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 16510-16520.	5.5	22
8	Layer-aware Collaborative Microservice Deployment toward Maximal Edge Throughput. , 2022, , .		7
9	Efficient and Secure Deep Learning Inference in Trusted Processor Enabled Edge Clouds. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 4311-4325.	4.0	3
10	On the Joint Optimization of Function Assignment and Communication Scheduling toward Performance Efficient Serverless Edge Computing. , 2022, , .		4
11	A Network Calculus Based Delay and Backlog Analysis for Cloud Radio Access Networks. Mobile Networks and Applications, 2021, 26, 1172-1181.	2.2	1
12	Edge Intelligence Empowered Urban Traffic Monitoring: A Network Tomography Perspective. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2198-2211.	4.7	15
13	Adaptive Preference-Aware Co-Location for Improving Resource Utilization of Power Constrained Datacenters. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 441-456.	4.0	7
14	On communication efficient dataflow computing in software defined networking enabled cloud. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	13
15	Editorial for Special Issue on Flexible Cloud and Edge for <scp>Internet of Things</scp>. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4266.	2.6	0
16	Editorial: Collaborative Next Generation Networking. Mobile Networks and Applications, 2021, 26, 794-796.	2.2	0
17	Layer Aware Microservice Placement and Request Scheduling at the Edge. , 2021, , .		19
18	Exploring Layered Container Structure for Cost Efficient Microservice Deployment. , 2021, , .		12

#	ARTICLE	IF	CITATIONS
19	Game-Theory-Based Clustering Scheme for Energy Balancing in Underwater Acoustic Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 9005-9013.	5.5	20
20	Gost: Enabling Efficient Spatio-Temporal GPU Sharing for Network Function Virtualization. , 2021, , .		3
21	Data Forwarding Scheme for Vehicle Tracking in Named Data Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 6684-6695.	3.9	19
22	Cluster Routing-Based Data Packet Backhaul Prediction Method in Vehicular Named Data Networking. IEEE Transactions on Network Science and Engineering, 2021, 8, 2639-2650.	4.1	10
23	Convergence of Edge Computing and Next Generation Networking. Peer-to-Peer Networking and Applications, 2021, 14, 3891-3894.	2.6	3
24	Guest Editorial: In-Network Computing: Emerging Trends for the Edge-Cloud Continuum. IEEE Network, 2021, 35, 12-13.	4.9	14
25	Q-Learning Based Delay-Aware Content Delivery in Cloud-Edge Cooperation Networks. , 2021, , .		2
26	IObtain: An Intelligent Lightweight I/O Recommendation System based on Decision Tree. , 2021, , .		1
27	Towards energy efficient service composition in green energy powered Cyber-Physical Fog Systems. Future Generation Computer Systems, 2020, 105, 757-765.	4.9	49
28	An efficient iterative graph data processing framework based on bulk synchronous parallel model. Concurrency Computation Practice and Experience, 2020, 32, e4432.	1.4	5
29	Joint optimization of function mapping and preemptive scheduling for service chains in network function virtualization. Future Generation Computer Systems, 2020, 108, 1112-1118.	4.9	8
30	Inline wireless mobile sensors and fog nodes placement for leakage detection in water distribution systems. Software - Practice and Experience, 2020, 50, 1152-1167.	2.5	6
31	Intelligent VNF Orchestration and Flow Scheduling via Model-Assisted Deep Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2020, 38, 279-291.	9.7	60
32	Unveil the Time Delay Signature in Delayed Chaotic Communication System via CNN. , 2020, , .		1
33	Sturgeon: Preference-aware Co-location for Improving Utilization of Power Constrained Computers. , 2020, , .		5
34	Service Function Chain Deployment and Network Flow Scheduling in Geo-Distributed Data Centers. IEEE Transactions on Network Science and Engineering, 2020, 7, 2587-2597.	4.1	13
35	A Learning-Based Incentive Mechanism for Federated Learning. IEEE Internet of Things Journal, 2020, 7, 6360-6368.	5.5	307
36	A Game-based Network Slicing and Resource Scheduling for Compute First Networking. , 2020, , .		2

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37	Pedagogical Data Federation toward Education 4.0. , 2020, , .		5
38	Task Offloading in Trusted Execution Environment empowered Edge Computing. , 2020, , .		3
39	A Customized Reinforcement Learning based Binary Offloading in Edge Cloud. , 2020, , .		1
40	Multi-Agent Reinforcement Learning for Cooperative Edge Caching in Internet of Vehicles. , 2020, , .		13
41	Offloading Federated Learning Task to Edge Computing with Trust Execution Environment. , 2020, , .		5
42	Incentive-driven Data Offloading and Caching Replacement Scheme in Opportunistic Mobile Networks. , 2020, , .		0
43	CODA: Improving Resource Utilization by Slimming and Co-locating DNN and CPU Jobs. , 2020, , .		8
44	A Q -Learning Based Framework for Congested Link Identification. IEEE Internet of Things Journal, 2019, 6, 9668-9678.	5.5	9
45	Fast Coflow Scheduling via Traffic Compression and Stage Pipelining in Datacenter Networks. IEEE Transactions on Computers, 2019, 68, 1755-1771.	2.4	23
46	An MDP-Based Wireless Energy Harvesting Decision Strategy for Mobile Device in Edge Computing. IEEE Network, 2019, 33, 109-115.	4.9	15
47	General Identifiability Condition for Network Topology Monitoring with Network Tomography. Sensors, 2019, 19, 4125.	2.1	2
48	Dependency-Aware Computation Offloading in Mobile Edge Computing: A Reinforcement Learning Approach. IEEE Access, 2019, 7, 134742-134753.	2.6	55
49	Joint Workload Scheduling and Energy Management for Green Data Centers Powered by Fuel Cells. IEEE Transactions on Green Communications and Networking, 2019, 3, 397-406.	3.5	16
50	Resource Management at the Network Edge: A Deep Reinforcement Learning Approach. IEEE Network, 2019, 33, 26-33.	4.9	108
51	Real-Time Massive Vector Field Data Processing in Edge Computing. Sensors, 2019, 19, 2602.	2.1	3
52	Fairness-Aware Dynamic Rate Control and Flow Scheduling for Network Utility Maximization in Network Service Chain. IEEE Journal on Selected Areas in Communications, 2019, 37, 1059-1071.	9.7	42
53	Multi-Path Routing Oriented Flow Statistics Collection in Software Defined Networks. , 2019, , .		0
54	Energy efficient task allocation and energy scheduling in green energy powered edge computing. Future Generation Computer Systems, 2019, 95, 89-99.	4.9	56

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55	When Green Energy Meets Cloud Radio Access Network: Joint Optimization Towards Brown Energy Minimization. <i>Mobile Networks and Applications</i> , 2019, 24, 962-970.	2.2	12
56	Multimodal optimization problem in contamination source determination of water supply networks. <i>Swarm and Evolutionary Computation</i> , 2019, 47, 66-71.	4.5	32
57	Guest editorial: Special issue on big data networking. <i>Peer-to-Peer Networking and Applications</i> , 2018, 11, 989-991.	2.6	0
58	A survey on sensor placement for contamination detection in water distribution systems. <i>Wireless Networks</i> , 2018, 24, 647-661.	2.0	45
59	Quality-of-sensing aware budget constrained contaminant detection sensor deployment in water distribution system. <i>Journal of Network and Computer Applications</i> , 2018, 103, 274-279.	5.8	11
60	Mining multiple spatial-temporal paths from social media data. <i>Future Generation Computer Systems</i> , 2018, 87, 782-791.	4.9	11
61	Stochastic Analysis on Fog Computing Empowered Mobile Crowdsensing with D2D Communications. , 2018, , .		3
62	Cost Efficient State-Aware Function Placement and Flow Scheduling for NFV Networks. , 2018, , .		1
63	Energy-Efficient Coordinated Multipoint Scheduling in Green Cloud Radio Access Network. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 9922-9930.	3.9	21
64	Stochastic Scheduling Towards Cost Efficient Network Function Virtualization in Edge Cloud. , 2018, , .		7
65	Swallow: Joint Online Scheduling and Coflow Compression in Datacenter Networks. , 2018, , .		11
66	An SDN-Based Architecture for Next-Generation Wireless Networks. <i>IEEE Wireless Communications</i> , 2017, 24, 25-31.	6.6	70
67	Strategic Antieavesdropping Game for Physical Layer Security in Wireless Cooperative Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2017, 66, 9448-9457.	3.9	40
68	A Survey on Energy Internet Communications for Sustainability. <i>IEEE Transactions on Sustainable Computing</i> , 2017, 2, 231-254.	2.2	107
69	Take Renewable Energy into CRAN toward Green Wireless Access Networks. <i>IEEE Network</i> , 2017, 31, 62-68.	4.9	23
70	Heterogeneous cloudlet deployment and user-cloudlet association toward cost effective fog computing. <i>Concurrency Computation Practice and Experience</i> , 2017, 29, e3975.	1.4	65
71	Editorial for Special Issue on Social Computing. <i>Mobile Networks and Applications</i> , 2017, 22, 151-152.	2.2	0
72	Minimize Coflow Completion Time via Joint Optimization of Flow Scheduling and Processor Placement. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
73	Green C-RAN: A Joint Approach to the Design and Energy Optimization. , 2017, , .		0
74	Joint Optimization of Virtual Function Migration and Rule Update in Software Defined NFV Networks. , 2017, , .		16
75	Multi-Path Routing for Energy Efficient Mobile Offloading in Software Defined Networks. , 2017, , .		1
76	Data or index: a trade-off in mobile delay tolerant networks. International Journal of Computational Science and Engineering, 2017, 14, 330.	0.4	0
77	MEMoMR: Accelerate MapReduce via reuse of intermediate results. Concurrency Computation Practice and Experience, 2016, 28, 3814-3829.	1.4	3
78	Joint Optimization of VM Placement and Rule Placement towards Energy Efficient Software-Defined Data Centers. , 2016, , .		6
79	Big Data Meet Green Challenges: Big Data Toward Green Applications. IEEE Systems Journal, 2016, 10, 888-900.	2.9	309
80	Big Data Meet Green Challenges: Greening Big Data. IEEE Systems Journal, 2016, 10, 873-887.	2.9	189
81	Joint optimization on switch activation and flow routing towards energy efficient software defined data center networks. , 2016, , .		12
82	Communication cost efficient virtualized network function placement for big data processing. , 2016, , .		2
83	On Cost-Efficient Sensor Placement for Contaminant Detection in Water Distribution Systems. IEEE Transactions on Industrial Informatics, 2016, 12, 2177-2185.	7.2	49
84	On Rule Placement for Multi-path Routing in Software-Defined Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 59-71.	0.2	2
85	Joint Optimization of Task Scheduling and Image Placement in Fog Computing Supported Software-Defined Embedded System. IEEE Transactions on Computers, 2016, 65, 3702-3712.	2.4	343
86	A General Communication Cost Optimization Framework for Big Data Stream Processing in Geo-Distributed Data Centers. IEEE Transactions on Computers, 2016, 65, 19-29.	2.4	134
87	Congestion control in social-based sensor networks: A social network perspective. Peer-to-Peer Networking and Applications, 2016, 9, 681-691.	2.6	5
88	Optimal VM placement in data centres with architectural and resource constraints. International Journal of Autonomous and Adaptive Communications Systems, 2015, 8, 392.	0.2	9
89	Migrate or not? Exploring virtual machine migration in roadside cloudlet-based vehicular cloud. Concurrency Computation Practice and Experience, 2015, 27, 5780-5792.	1.4	52
90	MR-COF: A Genetic MapReduce Configuration Optimization Framework. Lecture Notes in Computer Science, 2015, , 344-357.	1.0	11

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91	Exploiting Small World Properties for Message Forwarding in Delay Tolerant Networks. IEEE Transactions on Computers, 2015, 64, 2809-2818.	2.4	19
92	Energy Minimization in Multi-Task Software-Defined Sensor Networks. IEEE Transactions on Computers, 2015, 64, 3128-3139.	2.4	116
93	A MapReduce based Parallel Niche Genetic Algorithm for contaminant source identification in water distribution network. Ad Hoc Networks, 2015, 35, 116-126.	3.4	44
94	Opportunistic Offloading of Deadline-Constrained Bulk Cellular Traffic in Vehicular DTNs. IEEE Transactions on Computers, 2015, 64, 3515-3527.	2.4	19
95	An artificial bee colony algorithm for data collection path planning in sparse wireless sensor networks. International Journal of Machine Learning and Cybernetics, 2015, 6, 375-383.	2.3	64
96	Optimal Task Placement with QoS Constraints in Geo-Distributed Data Centers Using DVFS. IEEE Transactions on Computers, 2015, 64, 2049-2059.	2.4	63
97	Flow Setup Time aware Minimum Cost Switch-Controller Association in Software-Defined Networks. , 2015, , .		15
98	MyBSP: An Iterative Processing Framework Based on the Cloud Platform for Graph Data. , 2014, , .		1
99	Cost Minimization for Big Data Processing in Geo-Distributed Data Centers. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 314-323.	3.2	91
100	Joint Resource Allocation for Max-Min Throughput in Multicell Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 4546-4559.	3.9	18
101	On the Throughput of Feedbackless Segmented Network Coding in Delay Tolerant Networks. IEEE Wireless Communications Letters, 2012, 1, 93-96.	3.2	14