

# Deze Zeng

## List of Publications by Year in descending order

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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	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
2	Big Data Meet Green Challenges: Big Data Toward Green Applications. IEEE Systems Journal, 2016, 10, 888-900.	2.9	309
3	A Learning-Based Incentive Mechanism for Federated Learning. IEEE Internet of Things Journal, 2020, 7, 6360-6368.	5.5	307
4	Big Data Meet Green Challenges: Greening Big Data. IEEE Systems Journal, 2016, 10, 873-887.	2.9	189
5	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
6	Energy Minimization in Multi-Task Software-Defined Sensor Networks. IEEE Transactions on Computers, 2015, 64, 3128-3139.	2.4	116
7	Resource Management at the Network Edge: A Deep Reinforcement Learning Approach. IEEE Network, 2019, 33, 26-33.	4.9	108
8	A Survey on Energy Internet Communications for Sustainability. IEEE Transactions on Sustainable Computing, 2017, 2, 231-254.	2.2	107
9	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
10	Security and Privacy-Enhanced Federated Learning for Anomaly Detection in IoT Infrastructures. IEEE Transactions on Industrial Informatics, 2022, 18, 3492-3500.	7.2	75
11	An SDN-Based Architecture for Next-Generation Wireless Networks. IEEE Wireless Communications, 2017, 24, 25-31.	6.6	70
12	Heterogeneous cloudlet deployment and user-cloudlet association toward cost effective fog computing. Concurrency Computation Practice and Experience, 2017, 29, e3975.	1.4	65
13	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
14	Optimal Task Placement with QoS Constraints in Geo-Distributed Data Centers Using DVFS. IEEE Transactions on Computers, 2015, 64, 2049-2059.	2.4	63
15	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
16	Energy efficient task allocation and energy scheduling in green energy powered edge computing. Future Generation Computer Systems, 2019, 95, 89-99.	4.9	56
17	Dependency-Aware Computation Offloading in Mobile Edge Computing: A Reinforcement Learning Approach. IEEE Access, 2019, 7, 134742-134753.	2.6	55
18	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

#	ARTICLE	IF	CITATIONS
19	On Cost-Efficient Sensor Placement for Contaminant Detection in Water Distribution Systems. IEEE Transactions on Industrial Informatics, 2016, 12, 2177-2185.	7.2	49
20	Towards energy efficient service composition in green energy powered Cyber-Physical Fog Systems. Future Generation Computer Systems, 2020, 105, 757-765.	4.9	49
21	A survey on sensor placement for contamination detection in water distribution systems. Wireless Networks, 2018, 24, 647-661.	2.0	45
22	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
23	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
24	Strategic Antieavesdropping Game for Physical Layer Security in Wireless Cooperative Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 9448-9457.	3.9	40
25	Adaptive Resource Efficient Microservice Deployment in Cloud-Edge Continuum. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1825-1840.	4.0	40
26	Adaptive Federated Learning on Non-IID Data With Resource Constraint. IEEE Transactions on Computers, 2022, 71, 1655-1667.	2.4	36
27	Multimodal optimization problem in contamination source determination of water supply networks. Swarm and Evolutionary Computation, 2019, 47, 66-71.	4.5	32
28	Take Renewable Energy into CRAN toward Green Wireless Access Networks. IEEE Network, 2017, 31, 62-68.	4.9	23
29	Fast Coflow Scheduling via Traffic Compression and Stage Pipelining in Datacenter Networks. IEEE Transactions on Computers, 2019, 68, 1755-1771.	2.4	23
30	Stackelberg-Game-Based Computation Offloading Method in Cloud-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 16510-16520.	5.5	22
31	Energy-Efficient Coordinated Multipoint Scheduling in Green Cloud Radio Access Network. IEEE Transactions on Vehicular Technology, 2018, 67, 9922-9930.	3.9	21
32	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
33	Exploiting Small World Properties for Message Forwarding in Delay Tolerant Networks. IEEE Transactions on Computers, 2015, 64, 2809-2818.	2.4	19
34	Opportunistic Offloading of Deadline-Constrained Bulk Cellular Traffic in Vehicular DTNs. IEEE Transactions on Computers, 2015, 64, 3515-3527.	2.4	19
35	Layer Aware Microservice Placement and Request Scheduling at the Edge. , 2021, , .		19
36	Data Forwarding Scheme for Vehicle Tracking in Named Data Networking. IEEE Transactions on Vehicular Technology, 2021, 70, 6684-6695.	3.9	19

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37	Joint Resource Allocation for Max-Min Throughput in Multicell Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 4546-4559.	3.9	18
38	Joint Optimization of Virtual Function Migration and Rule Update in Software Defined NFV Networks. , 2017, , .		16
39	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
40	An MDP-Based Wireless Energy Harvesting Decision Strategy for Mobile Device in Edge Computing. IEEE Network, 2019, 33, 109-115.	4.9	15
41	Edge Intelligence Empowered Urban Traffic Monitoring: A Network Tomography Perspective. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2198-2211.	4.7	15
42	Flow Setup Time aware Minimum Cost Switch-Controller Association in Software-Defined Networks. , 2015, , .		15
43	On the Throughput of Feedbackless Segmented Network Coding in Delay Tolerant Networks. IEEE Wireless Communications Letters, 2012, 1, 93-96.	3.2	14
44	Guest Editorial: In-Network Computing: Emerging Trends for the Edge-Cloud Continuum. IEEE Network, 2021, 35, 12-13.	4.9	14
45	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
46	On communication efficient dataflow computing in software defined networking enabled cloud. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	13
47	Multi-Agent Reinforcement Learning for Cooperative Edge Caching in Internet of Vehicles. , 2020, , .		13
48	Joint optimization on switch activation and flow routing towards energy efficient software defined data center networks. , 2016, , .		12
49	When Green Energy Meets Cloud Radio Access Network: Joint Optimization Towards Brown Energy Minimization. Mobile Networks and Applications, 2019, 24, 962-970.	2.2	12
50	Exploring Layered Container Structure for Cost Efficient Microservice Deployment. , 2021, , .		12
51	MR-COF: A Genetic MapReduce Configuration Optimization Framework. Lecture Notes in Computer Science, 2015, , 344-357.	1.0	11
52	Quality-of-sensing aware budget constrained contaminant detection sensor deployment in water distribution system. Journal of Network and Computer Applications, 2018, 103, 274-279.	5.8	11
53	Mining multiple spatial&temporal paths from social media data. Future Generation Computer Systems, 2018, 87, 782-791.	4.9	11
54	Swallow: Joint Online Scheduling and Coflow Compression in Datacenter Networks. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	A $Q$ -Learning Based Framework for Congested Link Identification. IEEE Internet of Things Journal, 2019, 6, 9668-9678.	5.5	9
58	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
59	CODA: Improving Resource Utilization by Slimming and Co-locating DNN and CPU Jobs. , 2020, , .		8
60	Stochastic Scheduling Towards Cost Efficient Network Function Virtualization in Edge Cloud. , 2018, , .		7
61	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
62	Layer-aware Collaborative Microservice Deployment toward Maximal Edge Throughput. , 2022, , .		7
63	Joint Optimization of VM Placement and Rule Placement towards Energy Efficient Software-Defined Data Centers. , 2016, , .		6
64	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
65	Edge-Assisted Short Video Sharing With Guaranteed Quality-of-Experience. IEEE Transactions on Cloud Computing, 2023, 11, 13-24.	3.1	6
66	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
67	State-Estimation-Based Control Strategy Design for Connected Cruise Control With Delays. IEEE Systems Journal, 2023, 17, 99-110.	2.9	6
68	Congestion control in social-based sensor networks: A social network perspective. Peer-to-Peer Networking and Applications, 2016, 9, 681-691.	2.6	5
69	An efficient iterative graph data processing framework based on bulk synchronous parallel model. Concurrency Computation Practice and Experience, 2020, 32, e4432.	1.4	5
70	Sturgeon: Preference-aware Co-location for Improving Utilization of Power Constrained Computers. , 2020, , .		5
71	Pedagogical Data Federation toward Education 4.0. , 2020, , .		5
72	Offloading Federated Learning Task to Edge Computing with Trust Execution Environment. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
73	On the Joint Optimization of Function Assignment and Communication Scheduling toward Performance Efficient Serverless Edge Computing. , 2022, , .		4
74	MEMoMR: Accelerate MapReduce via reuse of intermediate results. Concurrency Computation Practice and Experience, 2016, 28, 3814-3829.	1.4	3
75	Stochastic Analysis on Fog Computing Empowered Mobile Crowdsensing with D2D Communications. , 2018, , .		3
76	Real-Time Massive Vector Field Data Processing in Edge Computing. Sensors, 2019, 19, 2602.	2.1	3
77	Gost: Enabling Efficient Spatio-Temporal GPU Sharing for Network Function Virtualization. , 2021, , .		3
78	Convergence of Edge Computing and Next Generation Networking. Peer-to-Peer Networking and Applications, 2021, 14, 3891-3894.	2.6	3
79	Task Offloading in Trusted Execution Environment empowered Edge Computing. , 2020, , .		3
80	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
81	Communication cost efficient virtualized network function placement for big data processing. , 2016, , .		2
82	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
83	General Identifiability Condition for Network Topology Monitoring with Network Tomography. Sensors, 2019, 19, 4125.	2.1	2
84	A Game-based Network Slicing and Resource Scheduling for Compute First Networking. , 2020, , .		2
85	Q-Learning Based Delay-Aware Content Delivery in Cloud-Edge Cooperation Networks. , 2021, , .		2
86	MyBSP: An Iterative Processing Framework Based on the Cloud Platform for Graph Data. , 2014, , .		1
87	Multi-Path Routing for Energy Efficient Mobile Offloading in Software Defined Networks. , 2017, , .		1
88	Cost Efficient State-Aware Function Placement and Flow Scheduling for NFV Networks. , 2018, , .		1
89	A Network Calculus Based Delay and Backlog Analysis for Cloud Radio Access Networks. Mobile Networks and Applications, 2021, 26, 1172-1181.	2.2	1
90	Unveil the Time Delay Signature in Delayed Chaotic Communication System via CNN. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
91	A Customized Reinforcement Learning based Binary Offloading in Edge Cloud. , 2020, , .		1
92	IObrain: An Intelligent Lightweight I/O Recommendation System based on Decision Tree. , 2021, , .		1
93	Editorial for Special Issue on Social Computing. Mobile Networks and Applications, 2017, 22, 151-152.	2.2	0
94	Minimize Coflow Completion Time via Joint Optimization of Flow Scheduling and Processor Placement. , 2017, , .		0
95	Green C-RAN: A Joint Approach to the Design and Energy Optimization. , 2017, , .		0
96	Guest editorial: Special issue on big data networking. Peer-to-Peer Networking and Applications, 2018, 11, 989-991.	2.6	0
97	Multi-Path Routing Oriented Flow Statistics Collection in Software Defined Networks. , 2019, , .		0
98	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
99	Editorial: Collaborative Next Generation Networking. Mobile Networks and Applications, 2021, 26, 794-796.	2.2	0
100	Data or index: a trade-off in mobile delay tolerant networks. International Journal of Computational Science and Engineering, 2017, 14, 330.	0.4	0
101	Incentive-driven Data Offloading and Caching Replacement Scheme in Opportunistic Mobile Networks. , 2020, , .		0