Gang Sun

List of Publications by Year
in descending order

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112	3,003	136950	197818
papers	citations	32 h-index	49 g-index

114	114	114	2824
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient location privacy algorithm for Internet of Things (IoT) services and applications. Journal of Network and Computer Applications, 2017, 89, 3-13.	9.1	128
2	Latency performance modeling and analysis for hyperledger fabric blockchain network. Information Processing and Management, 2021, 58, 102436.	8.6	116
3	Soft Zr-doped TiO2 Nanofibrous Membranes with Enhanced Photocatalytic Activity for Water Purification. Scientific Reports, 2017, 7, 1636.	3.3	101
4	Cost Efficient Design of Survivable Virtual Infrastructure to Recover from Facility Node Failures. , 2011, , .		93
5	A new technique for efficient live migration of multiple virtual machines. Future Generation Computer Systems, 2016, 55, 74-86.	7.5	93
6	Energy-efficient and traffic-aware service function chaining orchestration in multi-domain networks. Future Generation Computer Systems, 2019, 91, 347-360.	7.5	89
7	Service Function Chain Orchestration Across Multiple Domains: A Full Mesh Aggregation Approach. IEEE Transactions on Network and Service Management, 2018, 15, 1175-1191.	4.9	87
8	Antibacterial Surgical Silk Sutures Using a High-Performance Slow-Release Carrier Coating System. ACS Applied Materials & Interfaces, 2015, 7, 22394-22403.	8.0	86
9	A cost efficient framework and algorithm for embedding dynamic virtual network requests. Future Generation Computer Systems, 2013, 29, 1265-1277.	7.5	79
10	Survivable Virtual Infrastructure Mapping in a Federated Computing and Networking System under Single Regional Failures. , 2010, , .		73
11	L2P2: A location-label based approach for privacy preserving in LBS. Future Generation Computer Systems, 2017, 74, 375-384.	7.5	73
12	Live Migration for Multiple Correlated Virtual Machines in Cloud-Based Data Centers. IEEE Transactions on Services Computing, 2018, 11, 279-291.	4.6	67
13	Blockchain-Enhanced High-Confidence Energy Sharing in Internet of Electric Vehicles. IEEE Internet of Things Journal, 2020, 7, 7868-7882.	8.7	66
14	Bus-Trajectory-Based Street-Centric Routing for Message Delivery in Urban Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7550-7563.	6.3	65
15	V2V Routing in a VANET Based on the Autoregressive Integrated Moving Average Model. IEEE Transactions on Vehicular Technology, 2019, 68, 908-922.	6.3	61
16	Low-Latency and Resource-Efficient Service Function Chaining Orchestration in Network Function Virtualization. IEEE Internet of Things Journal, 2020, 7, 5760-5772.	8.7	61
17	User-defined privacy location-sharing system in mobile online social networks. Journal of Network and Computer Applications, 2017, 86, 34-45.	9.1	60
18	Security and privacy preservation in fog-based crowd sensing on the internet of vehicles. Journal of Network and Computer Applications, 2019, 134, 89-99.	9.1	58

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19	Energy-Efficient Provisioning for Service Function Chains to Support Delay-Sensitive Applications in Network Function Virtualization. IEEE Internet of Things Journal, 2020, 7, 6116-6131.	8.7	55
20	Location and trajectory privacy preservation in 5G-Enabled vehicle social network services. Journal of Network and Computer Applications, 2018, 110, 108-118.	9.1	54
21	Blockchain Meets VANET: An Architecture for Identity and Location Privacy Protection in VANET. Peer-to-Peer Networking and Applications, 2019, 12, 1178-1193.	3.9	51
22	Low-latency orchestration for workflow-oriented service function chain in edge computing. Future Generation Computer Systems, 2018, 85, 116-128.	7.5	50
23	Cost-Efficient Service Function Chain Orchestration for Low-Latency Applications in NFV Networks. IEEE Systems Journal, 2019, 13, 3877-3888.	4.6	50
24	Intersection Fog-Based Distributed Routing for V2V Communication in Urban Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2409-2426.	8.0	50
25	Power-Efficient Provisioning for Online Virtual Network Requests in Cloud-Based Data Centers. IEEE Systems Journal, 2015, 9, 427-441.	4.6	49
26	FBIA: A Fog-Based Identity Authentication Scheme for Privacy Preservation in Internet of Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 5403-5415.	6.3	46
27	Location Privacy Preservation for Mobile Users in Location-Based Services. IEEE Access, 2019, 7, 87425-87438.	4.2	45
28	Optimal Energy Trading for Plug-In Hybrid Electric Vehicles Based on Fog Computing. IEEE Internet of Things Journal, 2019, 6, 2309-2324.	8.7	39
29	Intersection-Based V2X Routing via Reinforcement Learning in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5446-5459.	8.0	38
30	Network function consolidation in service function chaining orchestration. , 2016, , .		37
31	A Reliability-Aware Approach for Resource Efficient Virtual Network Function Deployment. IEEE Access, 2018, 6, 18238-18250.	4.2	37
32	Large-scale fabrication of highly aligned poly(m-phenylene isophthalamide) nanofibers with robust mechanical strength. RSC Advances, 2014, 4, 45760-45767.	3.6	36
33	The cost-efficient deployment of replica servers in virtual content distribution networks for data fusion. Information Sciences, 2018, 432, 495-515.	6.9	36
34	Towards privacy preservation for â€œcheck-inâ€•services in location-based social networks. Information Sciences, 2019, 481, 616-634.	6.9	34
35	Online Parallelized Service Function Chain Orchestration in Data Center Networks. IEEE Access, 2019, 7, 100147-100161.	4.2	33
36	Exploring online virtual networks mapping with stochastic bandwidth demand in multi-datacenter. Photonic Network Communications, 2012, 23, 109-122.	2.7	32

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37	The efficient framework and algorithm for provisioning evolving VDC in federated data centers. Future Generation Computer Systems, 2017, 73, 79-89.	7.5	32
38	Analytical Exploration of Energy Savings for Parked Vehicles to Enhance VANET Connectivity. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1749-1761.	8.0	30
39	Voting-Based Decentralized Consensus Design for Improving the Efficiency and Security of Consortium Blockchain. IEEE Internet of Things Journal, 2021, 8, 6257-6272.	8.7	30
40	A Q-Learning-Based Approach for Deploying Dynamic Service Function Chains. Symmetry, 2018, 10, 646.	2.2	29
41	Towards provisioning hybrid virtual networks in federated cloud data centers. Future Generation Computer Systems, 2018, 87, 457-469.	7.5	28
42	Mobile-aware service function chain migration in cloudâ€“fog computing. Future Generation Computer Systems, 2019, 96, 591-604.	7.5	28
43	Toward Incentivizing Fog-Based Privacy-Preserving Mobile Crowdsensing in the Internet of Vehicles. IEEE Internet of Things Journal, 2020, 7, 4128-4142.	8.7	28
44	Optimal provisioning for virtual network request in cloud-based data centers. Photonic Network Communications, 2012, 24, 118-131.	2.7	27
45	The framework and algorithm for preserving user trajectory while using location-based services in IoT-cloud systems. Cluster Computing, 2017, 20, 2283-2297.	5.0	27
46	Blockchain-Enabled Two-Way Auction Mechanism for Electricity Trading in Internet of Electric Vehicles. IEEE Internet of Things Journal, 2022, 9, 8105-8118.	8.7	27
47	Priority-Based Medium Access Control for Wireless Body Area Networks With High-Performance Design. IEEE Internet of Things Journal, 2019, 6, 5363-5375.	8.7	26
48	Energy-efficient virtual content distribution network provisioning in cloud-based data centers. Future Generation Computer Systems, 2018, 83, 347-357.	7.5	22
49	Mitigating Conflicting Transactions in Hyperledger Fabric-Permissioned Blockchain for Delay-Sensitive IoT Applications. IEEE Internet of Things Journal, 2021, 8, 10596-10607.	8.7	21
50	PerFED-GAN: Personalized Federated Learning via Generative Adversarial Networks. IEEE Internet of Things Journal, 2023, 10, 3749-3762.	8.7	21
51	The Framework and Algorithms for the Survivable Mapping of Virtual Network onto a Substrate Network. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2011, 28, 381.	3.2	20
52	Towards Resource-Efficient Service Function Chain Deployment in Cloud-Fog Computing. IEEE Access, 2018, 6, 66754-66766.	4.2	16
53	Dynamic Network Function Provisioning to Enable Network in Box for Industrial Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 7155-7164.	11.3	16
54	Survivable provisioning for multicast service oriented virtual network requests in cloud-based data centers. Optical Switching and Networking, 2014, 14, 260-273.	2.0	15

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55	Efficient algorithms for survivable virtual network embedding. , 2010, , .		14
56	k-DLCA: An efficient approach for location privacy preservation in location-based services. , 2016, , .		14
57	Toward SLAs Guaranteed Scalable VDC Provisioning in Cloud Data Centers. IEEE Access, 2019, 7, 80219-80232.	4.2	14
58	Software-Defined MANET Swarm for Mobile Monitoring in Hydropower Plants. IEEE Access, 2019, 7, 152243-152257.	4.2	14
59	AI-based software-defined virtual network function scheduling with delay optimization. Cluster Computing, 2019, 22, 13897-13909.	5.0	14
60	Optimal provisioning for elastic service oriented virtual network request in cloud computing. , 2012, , .		13
61	Efficient Online Virtual Network Mapping Using Resource Evaluation. Journal of Network and Systems Management, 2012, 20, 468-488.	4.9	11
62	Energy and performance management in large data centers: A queuing theory perspective. , 2015, , .		11
63	ESync: Accelerating Intra-Domain Federated Learning in Heterogeneous Data Centers. IEEE Transactions on Services Computing, 2022, 15, 2261-2274.	4.6	11
64	PSNet: Reconfigurable network topology design for accelerating parameter server architecture based distributed machine learning. Future Generation Computer Systems, 2020, 106, 320-332.	7.5	11
65	A Two-Tier Collection and Processing Scheme for Fog-Based Mobile Crowdsensing in the Internet of Vehicles. IEEE Internet of Things Journal, 2021, 8, 1971-1984.	8.7	11
66	Cost efficient virtual infrastructure mapping using subgraph isomorphism. Proceedings of SPIE, 2010, , .	0.8	10
67	Protecting User Trajectory in Location-Based Services. , 2015, , .		10
68	Deadline-Aware Fast One-to-Many Bulk Transfers over Inter-Datacenter Networks. IEEE Transactions on Cloud Computing, 2022, 10, 304-321.	4.4	10
69	DGT: A contribution-aware differential gradient transmission mechanism for distributed machine learning. Future Generation Computer Systems, 2021, 121, 35-47.	7.5	9
70	Adaptive provisioning for evolving virtual network request in cloud-based datacenters. , 2012, , .		8
71	A new approach for preparing SiC particle-reinforced aluminum matrix composites by applying electromagnetic field. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 717-721.	1.0	8
72	Job scheduling for distributed machine learning in optical WAN. Future Generation Computer Systems, 2020, 112, 549-560.	7.5	8

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73	An Efficient Blockchain PBFT Consensus Protocol in Energy Constrained IoT Applications. , 2021, , .		8
74	Towards Location and Trajectory Privacy Preservation in 5G Vehicular Social Network. , 2017, , .		7
75	On the deployment of information-centric network: Programmability and virtualization. , 2015, , .		6
76	Towards Yo-Yo attack mitigation in cloud auto-scaling mechanism. Digital Communications and Networks, 2020, 6, 369-376.	5.0	6
77	Online job scheduling for distributed machine learning in optical circuit switch networks. Knowledge-Based Systems, 2020, 201-202, 106002.	7.1	6
78	Toward Improving QoS and Energy Efficiency in Wireless Body Area Networks. IEEE Systems Journal, 2021, 15, 865-876.	4.6	6
79	Profit Maximization of Online Service Function Chain Orchestration in an Inter-Datacenter Elastic Optical Network. IEEE Transactions on Network and Service Management, 2021, 18, 973-985.	4.9	6
80	Security-SLA-guaranteed service function chain deployment in cloud-fog computing networks. Cluster Computing, 2021, 24, 2479-2494.	5.0	6
81	Cost efficient virtual infrastructure mapping using subgraph isomorphism. , 2010, , .		5
82	Efficient Provisioning of Hybrid Virtual Network with Stochastic Resource Demands. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2014, 31, 342-352.	3.2	5
83	Energy Efficient Deployment of a Service Function Chain for Sustainable Cloud Applications. Sustainability, 2018, 10, 3499.	3.2	5
84	AI-based survivable design for hybrid virtual networks for single regional failures in cloud data centers. Cluster Computing, 2019, 22, 12009-12019.	5.0	5
85	TSEngine: Enable Efficient Communication Overlay in Distributed Machine Learning in WANs. IEEE Transactions on Network and Service Management, 2021, 18, 4846-4859.	4.9	4
86	Beamer: Stage-Aware Coflow Scheduling to Accelerate Hyper-Parameter Tuning in Deep Learning Clusters. IEEE Transactions on Network and Service Management, 2022, 19, 1083-1097.	4.9	4
87	Deep Learning Framework Fuzzing Based on Model Mutation. , 2021, , .		4
88	Exploring Power-Efficient Provisioning for Online Virtual Network Requests. , 2012, , .		3
89	Opportunistic provisioning for multicast virtual network requests. , 2014, , .		3
90	Attention distribution guided information transfer networks for recommendation in practice. Applied Soft Computing Journal, 2020, 97, 106772.	7.2	3

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91	Survivable mapping for multicast virtual network under single regional failure. , 2014, , .		2
92	Protecting User Trajectory in Location-Based Services. , 2014, , .		2
93	Guest Editorial: Security and Privacy for Multimedia in the Internet of Things (IoT). Multimedia Tools and Applications, 2018, 77, 18201-18202.	3.9	2
94	Towards efficiently migrating virtual networks in cloud-based data centers. Photonic Network Communications, 2018, 35, 151-164.	2.7	2
95	Flow-aware explicit congestion notification for datacenter networks. Cluster Computing, 2019, 22, 1431-1446.	5.0	2
96	Grouper: Accelerating Hyperparameter Searching in Deep Learning Clusters With Network Scheduling. IEEE Transactions on Network and Service Management, 2020, 17, 1879-1895.	4.9	2
97	Service Function Chain Deployment Based on Candidate Paths. , 2021, , .		2
98	RANCE: A Randomly Centralized and On-Demand Clustering Protocol for Mobile Ad Hoc Networks. IEEE Internet of Things Journal, 2022, 9, 23639-23658.	8.7	2
99	Quality of service aware virtual network mapping across multiple domains. , 2013, , .		1
100	Design of reliable virtual infrastructure using local protection. , 2014, , .		1
101	Cost efficient survivable multicast virtual network design. , 2014, , .		1
102	Local protection: A cost efficient technique for reliable virtual infrastructure design. Optical Switching and Networking, 2014, 11, 154-166.	2.0	1
103	Reliable Design for Stochastic Multicast Virtual Network in Data Centres. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2014, 31, 327-341.	3.2	1
104	Special issue on fog/edge computing in Enterprise Multimedia Security [SI 1138T]. Multimedia Tools and Applications, 2020, 79, 10699-10700.	3.9	1
105	Fast recovery for online service function chaining interruption using adaptive migration. Cluster Computing, 0, , 1.	5.0	1
106	Reconfigurable Aggregation Tree for Distributed Machine Learning in Optical WAN. , 2021, , .		1
107	Protocol Fuzzing With Specification Guided Message Generation. , 2021, , .		1
108	A distributed algorithm for optimal network resource allocation considering delay sensitive traffic. , 2010, , .		0

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109	Survivable virtual infrastructure mappings in multi-datacenter systems. , 2013, , .		0
110	Multiple topologies routing for improving service management in OSPF networks. , 2014, , .		0
111	Cost-Efficient Scheduling of Multicast Transfers with Deadline Guarantees Across Edge Datacenters. IEEE Transactions on Services Computing, 2021, , 1-1.	4.6	0
112	Privacy-preserving Aggregation Scheme for Blockchained Federated Learning in IoT. , 2021, , .		0