

Mingwei Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

426
citations

11
h-index

17
g-index

108
ext. papers

603
ext. citations

4.2
avg, IF

3.87
L-index

#	Paper	IF	Citations
81	CoFilter: High-Performance Switch-Accelerated Stateful Packet Filter for Bare-Metal Servers. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2022 , 33, 2249-2262	3.7	0
80	TurboNet: Faithfully Emulating Networks With Programmable Switches. <i>IEEE/ACM Transactions on Networking</i> , 2022 , 1-15	3.8	0
79	NetEC: Accelerating Erasure Coding Reconstruction with In-Network Aggregation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2022 , 1-1	3.7	
78	Dynamic Network Security Function Enforcement via Joint Flow and Function Scheduling. <i>IEEE Transactions on Information Forensics and Security</i> , 2022 , 17, 486-499	8	0
77	NetHCF: Filtering Spoofed IP Traffic With Programmable Switches. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2022 , 1-1	3.9	
76	Disrupting the SDN Control Channel via Shared Links: Attacks and Countermeasures. <i>IEEE/ACM Transactions on Networking</i> , 2022 , 1-15	3.8	0
75	Newton: Intent-Driven Network Traffic Monitoring. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 1-14	3.8	0
74	Control Plane Reflection Attacks and Defenses in Software-Defined Networks. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 29, 623-636	3.8	3
73	. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 29, 723-736	3.8	2
72	Flow-level and efficient traffic engineering in conventional routing systems. <i>Computer Networks</i> , 2021 , 185, 107671	5.4	0
71	Cratus: a Lightweight and Robust Approach for Mobile Live Streaming. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 1-1	4.6	
70	. <i>IEEE Transactions on Multimedia</i> , 2021 , 1-1	6.6	
69	. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 29, 1509-1526	3.8	0
68	HyperTester: High-Performance Network Testing Driven by Programmable Switches. <i>IEEE/ACM Transactions on Networking</i> , 2021 , 1-14	3.8	1
67	NetView: Towards on-demand network-wide telemetry in the data center. <i>Computer Networks</i> , 2020 , 180, 107386	5.4	4
66	Low-Cost Datacenter Load Balancing With Multipath Transport and Top-of-Rack Switches. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020 , 31, 2232-2247	3.7	3
65	Poseidon: Mitigating Volumetric DDoS Attacks with Programmable Switches 2020 ,		35

64	TurboNet: Faithfully Emulating Networks with Programmable Switches 2020 ,		1
63	Towards In-network Acceleration of Erasure Coding 2020 ,		7
62	NetView: Towards On-Demand Network-Wide Telemetry in the Data Center 2020 ,		2
61	An Efficient and Compacted DAG-Based Blockchain Protocol for Industrial Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 4134-4145	11.9	38
60	A loss aware MPTCP scheduler for highly lossy networks. <i>Computer Networks</i> , 2019 , 157, 146-158	5.4	8
59	How Powerful Switches Should be Deployed: A Precise Estimation Based on Queuing Theory 2019 ,		4
58	HyperTester 2019 ,		8
57	cSFC: Building Credible Service Function Chain on the Cloud 2019 ,		1
56	CoDAG: An Efficient and Compacted DAG-Based Blockchain Protocol 2019 ,		9
55	Towards flexible management in enterprise network: an enhanced routing protocol. <i>International Journal of Machine Learning and Cybernetics</i> , 2018 , 9, 125-132	3.8	2
54	Fast Rerouting Against Multi-Link Failures Without Topology Constraint. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 384-397	3.8	14
53	Security Policy Violations in SDN Data Plane. <i>IEEE/ACM Transactions on Networking</i> , 2018 , 26, 1715-1727	3.8	15
52	Unified Middlebox Model Design and Deployment With Dynamic Resources. <i>IEEE Transactions on Network and Service Management</i> , 2018 , 15, 1035-1048	4.8	3
51	Demand-oblivious routing with planned link pruning. <i>Computer Networks</i> , 2018 , 141, 102-114	5.4	1
50	Mandatory Content Access Control for Privacy Protection in Information Centric Networks. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2017 , 14, 494-506	3.9	25
49	A customized and cost-efficient backup scheme in software-defined networks 2017 ,		2
48	Balancer: A Traffic-Aware Hybrid Rule Allocation Scheme in Software Defined Networks 2017 ,		3
47	LAMPS: A Loss Aware Scheduler for Multipath TCP over Highly Lossy Networks 2017 ,		8

46	Revolutionizing the inter-domain business model by information-centric thinking 2016 ,		1
45	Compressing IP Forwarding Tables with Small Bounded Update Time. <i>Computer Networks</i> , 2016 , 106, 77-90	5.4	0
44	Restricted overlay routing. <i>International Journal of Machine Learning and Cybernetics</i> , 2016 , 7, 275-285	3.8	1
43	Reduce completion time and guarantee throughput by transport with slight congestion 2016 ,		1
42	Optimizing content delivery in ICN networks by the supply chain model 2016 ,		4
41	Achieving Stable iBGP with Only One Add-Path 2016 ,		1
40	Efficient handover in railway networking via named data. <i>International Journal of Machine Learning and Cybernetics</i> , 2015 , 6, 167-173	3.8	6
39	Evaluation of path stretch in scalable routing system. <i>International Journal of Machine Learning and Cybernetics</i> , 2015 , 6, 339-345	3.8	2
38	Robust Energy-Aware Routing with Uncertain Traffic Demands 2015 ,		1
37	Compressing IP forwarding tables with fast and bounded update 2015 ,		1
36	Joint optimization of content replication and Traffic Engineering in ICN 2015 ,		3
35	On the Network Power Effectiveness of Data Center Architectures. <i>IEEE Transactions on Computers</i> , 2015 , 64, 3237-3248	2.5	6
34	LTTP: An LT-Code Based Transport Protocol for Many-to-One Communication in Data Centers. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 52-64	14.2	18
33	IER: ID-ELoc-RLoc based architecture for next generation internet. <i>Journal of Electronics</i> , 2014 , 31, 519-536		
32	Revisiting the Design of Mega Data Centers: Considering Heterogeneity Among Containers. <i>IEEE/ACM Transactions on Networking</i> , 2014 , 22, 1503-1515	3.8	4
31	MTR: Fault tolerant routing in Clos data center network with miswiring links 2014 ,		4
30	Session-based access control in information-centric networks: Design and analyses 2014 ,		10
29	An economic analysis of routing conflict and its resolution. <i>Performance Evaluation</i> , 2014 , 71, 25-43	1.2	1

28	Greening data center networks with flow preemption and energy-aware routing 2013 ,		4
27	Hop-based Probabilistic Caching for Information-Centric Networks 2013 ,		12
26	Explicit multipath congestion control for data center networks 2013 ,		35
25	Enhancing the Trust of Internet Routing With Lightweight Route Attestation. <i>IEEE Transactions on Information Forensics and Security</i> , 2012 , 7, 691-703	8	4
24	VegaNet: a virtualized experimentation platform for production networks with connectivity consistency. <i>IEEE Network</i> , 2012 , 26, 15-21	11.4	2
23	A Unified Approach to Routing Protection in IP Networks. <i>IEEE Transactions on Network and Service Management</i> , 2012 , 9, 306-319	4.8	8
22	A Coding-based Approach to Mitigate TCP Incast in Data Center Networks 2012 ,		2
21	Age-based cooperative caching in Information-Centric Networks 2012 ,		9
20	Flexible integration of tunneling and translation for IPv6 transition. <i>Networking Science</i> , 2012 , 1, 23-33		1
19	A Comparison Study of Energy Proportionality of Data Center Network Architectures 2012 ,		13
18	Self-healing routing: failure, modeling and analysis. <i>Science China Information Sciences</i> , 2011 , 54, 609-622,4		3
17	Building mega data center from heterogeneous containers 2011 ,		22
16	Toward a practical approach for BGP stability with root cause check. <i>Journal of Parallel and Distributed Computing</i> , 2011 , 71, 1098-1110	4.4	4
15	Lightweight IP fast reroute with Tunnel-AT 2010 ,		3
14	Achieving Unified Protection for IP Routing 2010 ,		4
13	Improving IGP Convergence through Distributed OSPF in Scalable Router 2009 ,		1
12	Towards a Group-Based RBAC Model and Decentralized User-Role Administration 2008 ,		2
11	Toward A Practical Scheme for IPSec Management. <i>Information Networking, 2008 ICOIN 2008 International Conference on</i> , 2008 ,		1

10	Analysis and case study on multi-dimensional scalability of the Internet architecture. <i>Science in China Series F: Information Sciences</i> , 2008 , 51, 1661-1680		4
9	IETF softwire unicast and multicast framework for IPv6 transition. <i>Science in China Series F: Information Sciences</i> , 2008 , 51, 1692-1702		
8	Flexible Authorization with Decentralized Access Control Model for Grid Computing 2007 ,		2
7	Supporting Ad-hoc Collaboration with Group-based RBAC Model 2006 ,		4
6	The Transition to IPv6, Part II: The Softwire Mesh Framework Solution. <i>IEEE Internet Computing</i> , 2006 , 10, 76-80	2.4	11
5	Stability analysis of buffer priority scheduling policies using Petri nets. <i>Journal of Computer Science and Technology</i> , 2003 , 18, 278-286	1.7	
4	A sufficient condition for instability of buffer priority policies in re-entrant lines. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 1235-1238	5.9	5
3	A non-collision hash trie-tree based fast IP classification algorithm. <i>Journal of Computer Science and Technology</i> , 2002 , 17, 219-226	1.7	3
2	A formal approach to protocol performance testing. <i>Journal of Computer Science and Technology</i> , 1999 , 14, 81-87	1.7	
1	A fast IP classification algorithm applying to multiple fields		1