Mingwei Xu

List of Publications by Citations

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	An Efficient and Compacted DAG-Based Blockchain Protocol for Industrial Internet of Things. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 4134-4145	11.9	38
80	Explicit multipath congestion control for data center networks **2013**,		35
79	Poseidon: Mitigating Volumetric DDoS Attacks with Programmable Switches **2020**,		35
78	Mandatory Content Access Control for Privacy Protection in Information Centric Networks. *IEEE Transactions on Dependable and Secure Computing*, **2017**, 14, 494-506	3.9	25
77	Building mega data center from heterogeneous containers **2011**,		22
76	LTTP: An LT-Code Based Transport Protocol for Many-to-One Communication in Data Centers. *IEEE Journal on Selected Areas in Communications*, **2014**, 32, 52-64	14.2	18
75	Security Policy Violations in SDN Data Plane. *IEEE/ACM Transactions on Networking*, **2018**, 26, 1715-1727	3.8	15
74	Fast Rerouting Against Multi-Link Failures Without Topology Constraint. *IEEE/ACM Transactions on Networking*, **2018**, 26, 384-397	3.8	14
73	A Comparison Study of Energy Proportionality of Data Center Network Architectures **2012**,		13
72	Hop-based Probabilistic Caching for Information-Centric Networks **2013**,		12
71	The Transition to IPv6, Part II: The Softwire Mesh Framework Solution. *IEEE Internet Computing*, **2006**, 10, 76-80	2.4	11
70	Session-based access control in information-centric networks: Design and analyses **2014**,		10
69	Age-based cooperative caching in Information-Centric Networks **2012**,		9
68	CoDAG: An Efficient and Compacted DAG-Based Blockchain Protocol **2019**,		9
67	A loss aware MPTCP scheduler for highly lossy networks. *Computer Networks*, **2019**, 157, 146-158	5.4	8
66	LAMPS: A Loss Aware Scheduler for Multipath TCP over Highly Lossy Networks **2017**,		8
65	A Unified Approach to Routing Protection in IP Networks. *IEEE Transactions on Network and Service Management*, **2012**, 9, 306-319	4.8	8

64	HyperTester **2019**,		8
63	Towards In-network Acceleration of Erasure Coding **2020**,		7
62	Efficient handover in railway networking via named data. *International Journal of Machine Learning and Cybernetics*, **2015**, 6, 167-173	3.8	6
61	On the Network Power Effectiveness of Data Center Architectures. *IEEE Transactions on Computers*, **2015**, 64, 3237-3248	2.5	6
60	A sufficient condition for instability of buffer priority policies in re-entrant lines. *IEEE Transactions on Automatic Control*, **2003**, 48, 1235-1238	5.9	5
59	How Powerful Switches Should be Deployed: A Precise Estimation Based on Queuing Theory **2019**,		4
58	NetView: Towards on-demand network-wide telemetry in the data center. *Computer Networks*, **2020**, 180, 107386	5.4	4
57	Enhancing the Trust of Internet Routing With Lightweight Route Attestation. *IEEE Transactions on Information Forensics and Security*, **2012**, 7, 691-703	8	4
56	Greening data center networks with flow preemption and energy-aware routing **2013**,		4
55	Revisiting the Design of Mega Data Centers: Considering Heterogeneity Among Containers. *IEEE/ACM Transactions on Networking*, **2014**, 22, 1503-1515	3.8	4
54	MTR: Fault tolerant routing in Clos data center network with miswiring links **2014**,		4
53	Achieving Unified Protection for IP Routing **2010**,		4
52	Toward a practical approach for BGP stability with root cause check. *Journal of Parallel and Distributed Computing*, **2011**, 71, 1098-1110	4.4	4
51	Analysis and case study on multi-dimensional scalability of the Internet architecture. *Science in China Series F: Information Sciences*, **2008**, 51, 1661-1680		4
50	Supporting Ad-hoc Collaboration with Group-based RBAC Model **2006**,		4
49	Optimizing content delivery in ICN networks by the supply chain model **2016**,		4
48	Low-Cost Datacenter Load Balancing With Multipath Transport and Top-of-Rack Switches. *IEEE Transactions on Parallel and Distributed Systems*, **2020**, 31, 2232-2247	3.7	3
47	Unified Middlebox Model Design and Deployment With Dynamic Resources. *IEEE Transactions on Network and Service Management*, **2018**, 15, 1035-1048	4.8	3

46	Balancer: A Traffic-Aware Hybrid Rule Allocation Scheme in Software Defined Networks **2017**,		3
45	Joint optimization of content replication and Traffic Engineering in ICN **2015**,		3
44	Self-healing routing: failure, modeling and analysis. *Science China Information Sciences*, **2011**, 54, 609-622	3.4	3
43	Lightweight IP fast reroute with Tunnel-AT **2010**,		3
42	A non-collision hash trie-tree based fast IP classification algorithm. *Journal of Computer Science and Technology*, **2002**, 17, 219-226	1.7	3
41	Control Plane Reflection Attacks and Defenses in Software-Defined Networks. *IEEE/ACM Transactions on Networking*, **2021**, 29, 623-636	3.8	3
40	Towards flexible management in enterprise network: an enhanced routing protocol. *International Journal of Machine Learning and Cybernetics*, **2018**, 9, 125-132	3.8	2
39	A customized and cost-efficient backup scheme in software-defined networks **2017**,		2
38	Evaluation of path stretch in scalable routing system. *International Journal of Machine Learning and Cybernetics*, **2015**, 6, 339-345	3.8	2
37	VegaNet: a virtualized experimentation platform for production networks with connectivity consistency. *IEEE Network*, **2012**, 26, 15-21	11.4	2
36	A Coding-based Approach to Mitigate TCP Incast in Data Center Networks **2012**,		2
35	Towards a Group-Based RBAC Model and Decentralized User-Role Administration **2008**,		2
34	Flexible Authorization with Decentralized Access Control Model for Grid Computing **2007**,		2
33	NetView: Towards On-Demand Network-Wide Telemetry in the Data Center **2020**,		2
32	. *IEEE/ACM Transactions on Networking*, **2021**, 29, 723-736	3.8	2
31	Revolutionizing the inter-domain business model by information-centric thinking **2016**,		1
30	Restricted overlay routing. *International Journal of Machine Learning and Cybernetics*, **2016**, 7, 275-285	3.8	1
29	Robust Energy-Aware Routing with Uncertain Traffic Demands **2015**,		1

28	Compressing IP forwarding tables with fast and bounded update **2015**,		1
27	An economic analysis of routing conflict and its resolution. *Performance Evaluation*, **2014**, 71, 25-43	1.2	1
26	Flexible integration of tunneling and translation for IPv6 transition. *Networking Science*, **2012**, 1, 23-33		1
25	Improving IGP Convergence through Distributed OSPF in Scalable Router **2009**,		1
24	Toward A Practical Scheme for IPSec Management. *Information Networking, 2008 ICOIN 2008 International Conference on*, **2008**,		1
23	A fast IP classification algorithm applying to multiple fields		1
22	TurboNet: Faithfully Emulating Networks with Programmable Switches **2020**,		1
21	Reduce completion time and guarantee throughput by transport with slight congestion **2016**,		1
20	Achieving Stable iBGP with Only One Add-Path **2016**,		1
19	cSFC: Building Credible Service Function Chain on the Cloud **2019**,		1
18	Demand-oblivious routing with planned link pruning. *Computer Networks*, **2018**, 141, 102-114	5.4	1
17	HyperTester: High-Performance Network Testing Driven by Programmable Switches. *IEEE/ACM Transactions on Networking*, **2021**, 1-14	3.8	1
16	Compressing IP Forwarding Tables with Small Bounded Update Time. *Computer Networks*, **2016**, 106, 77-90	5.4	0
15	CoFilter: High-Performance Switch-Accelerated Stateful Packet Filter for Bare-Metal Servers. *IEEE Transactions on Parallel and Distributed Systems*, **2022**, 33, 2249-2262	3.7	0
14	TurboNet: Faithfully Emulating Networks With Programmable Switches. *IEEE/ACM Transactions on Networking*, **2022**, 1-15	3.8	0
13	Dynamic Network Security Function Enforcement via Joint Flow and Function Scheduling. *IEEE Transactions on Information Forensics and Security*, **2022**, 17, 486-499	8	0
12	Newton: Intent-Driven Network Traffic Monitoring. *IEEE/ACM Transactions on Networking*, **2021**, 1-14	3.8	0
11	Flow-level and efficient traffic engineering in conventional routing systems. *Computer Networks*, **2021**, 185, 107671	5.4	0

10	. *IEEE/ACM Transactions on Networking*, **2021**, 29, 1509-1526	3.8	0
9	Disrupting the SDN Control Channel via Shared Links: Attacks and Countermeasures. *IEEE/ACM Transactions on Networking*, **2022**, 1-15	3.8	0
8	IER: ID-ELoc-RLoc based architecture for next generation internet. *Journal of Electronics*, **2014**, 31, 519-536		
7	IETF softwire unicast and multicast framework for IPv6 transition. *Science in China Series F: Information Sciences*, **2008**, 51, 1692-1702		
6	Stability analysis of buffer priority scheduling policies using Petri nets. *Journal of Computer Science and Technology*, **2003**, 18, 278-286	1.7	
5	A formal approach to protocol performance testing. *Journal of Computer Science and Technology*, **1999**, 14, 81-87	1.7	
4	NetEC: Accelerating Erasure Coding Reconstruction with In-Network Aggregation. *IEEE Transactions on Parallel and Distributed Systems*, **2022**, 1-1	3.7	
3	Cratus: a Lightweight and Robust Approach for Mobile Live Streaming. *IEEE Transactions on Mobile Computing*, **2021**, 1-1	4.6	
2	. *IEEE Transactions on Multimedia*, **2021**, 1-1	6.6	
1	NetHCF: Filtering Spoofed IP Traffic With Programmable Switches. *IEEE Transactions on Dependable and Secure Computing*, **2022**, 1-1	3.9	