Chengchen Hu

List of Publications by Year
in descending order

59	585	1162889	887953
papers	citations	8	17
		h-index	g-index

59	59	59	494
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Survey on routing in data centers: insights and future directions. IEEE Network, 2011, 25, 6-10.	4.9	104
2	A TCAM-based distributed parallel IP lookup scheme and performance analysis. IEEE/ACM Transactions on Networking, 2006, 14, 863-875.	2.6	98
3	On the design of green reconfigurable router toward energy efficient internet. IEEE Communications Magazine, 2011, 49, 83-87.	4.9	45
4	An ultra high throughput and power efficient TCAM-based IP lookup engine. , 0, , .		35
5	DISCO: Memory Efficient and Accurate Flow Statistics for Network Measurement. , 2010, , .		33
6	Discount Counting for Fast Flow Statistics on Flow Size and Flow Volume. IEEE/ACM Transactions on Networking, 2014, 22, 970-981.	2.6	28
7	Route Table Partitioning and Load Balancing for Parallel Searching with TCAMs. , 2007, , .		25
8	ANLS: Adaptive Non-Linear Sampling Method for Accurate Flow Size Measurement. IEEE Transactions on Communications, 2012, 60, 789-798.	4.9	24
9	VirtualKnotter: Online virtual machine shuffling for congestion resolving in virtualized datacenter. Computer Networks, 2014, 67, 141-153.	3.2	19
10	Network-Wide Forwarding Anomaly Detection and Localization in Software Defined Networks. IEEE/ACM Transactions on Networking, 2021, 29, 332-345.	2.6	18
11	FOCES: Detecting Forwarding Anomalies in Software Defined Networks. , 2018, , .		15
12	Error Tolerant Address Configuration for Data Center Networks with Malfunctioning Devices. , 2012, , .		12
13	Greening the Internet Using Multi-frequency Scaling Scheme. , 2012, , .		11
14	Fast testing network data plane with RuleChecker. , 2017, , .		11
15	Taming the Wild: A Scalable Anycast-Based CDN Architecture (T-SAC). IEEE Journal on Selected Areas in Communications, 2018, 36, 2757-2774.	9.7	10
16	Optimal Deployment of Distributed Passive Measurement Monitors. , 2006, , .		8
17	Evaluating Potential Routing Diversity for Internet Failure Recovery. , 2010, , .		7
18	DRR-SFF: A Practical Scheduling Algorithm to Improve the Performance of Short Flows. , 2007, , .		6

#	Article	IF	Citations
19	More Accurate and Fast SYN Flood Detection. , 2009, , .		6
20	Fixed-length switching vs. variable-length switching in input-queued IP switches. , 0, , .		5
21	A More Accurate Scheme to Detect SYN Flood Attacks. , 2009, , .		5
22	MP-ROOM: Optimal Matching on Multiple PDUs for Fine-Grained Traffic Identification. IEEE Journal on Selected Areas in Communications, 2014, 32, 1881-1893.	9.7	5
23	S3: Smart selection of sampling function for passive network measurement. , 2011, , .		4
24	ROOM: Rule Organized Optimal Matching for fine-grained traffic identification. , 2013, , .		4
25	Improving the efficiency and fairness of eXplicit Control Protocol in multi-bottleneck networks. Computer Communications, 2013, 36, 1193-1208.	3.1	4
26	Rethinking the Design of OpenFlow Switch Counters. , 2016, , .		4
27	CHRIS: CHannel and Radio Interface Switching for Multi-Radio Wireless Mesh Network. , 2007, , .		3
28	A Measurement Study on Potential Inter-Domain Routing Diversity. IEEE Transactions on Network and Service Management, 2012, 9, 268-278.	3.2	3
29	Reducing power of traffic manager in routers via dynamic on/off-chip scheduling. , 2012, , .		3
30	Network recorder and player: FPGA-based network traffic capture and replay. , 2014, , .		3
31	Adaptable Switch: A Heterogeneous Switch Architecture for Network-Centric Computing. IEEE Communications Magazine, 2020, 58, 64-69.	4.9	3
32	A Trace Driven Comparison of Latency Hiding Techniques for Network Processors. , 2006, , .		2
33	Experience on Applying Push Model to Packet Processors in High Performance Routers. , 2010, , .		2
34	Managing DFA History with Queue for Deflation DFA. Journal of Network and Systems Management, 2012, 20, 155-180.	3.3	2
35	Inter-Swarm Content Distribution Among Private BitTorrent Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 132-141.	9.7	2
36	Characterizing Pairwise Social Relationships Quantitatively: Interest-Oriented Mobility Modeling for Human Contacts in Delay Tolerant Networks. Journal of Applied Mathematics, 2013, 2013, 1-15.	0.4	2

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37	Performance impact inference with failures in data center networks. , 2016, , .		2
38	Towards a fast packet inspection over compressed HTTP traffic. , 2017, , .		2
39	Fuzzy Optimization for Security Sensors Deployment in Collaborative Intrusion Detection System. Lecture Notes in Computer Science, 2006, , 743-752.	1.0	2
40	On the Deployment Strategy of Distributed Network Security Sensors. , 0, , .		1
41	Control Estimation Error of Sampling Method for Passive Measurement. , 2007, , .		1
42	Performance comparison between fixed length switching and variable length switching. International Journal of Communication Systems, 2008, 21, 489-508.	1.6	1
43	A2C: Anti-Attack Counters for Traffic Measurement. , 2010, , .		1
44	Improving the stability of eXplicit Control Protocol under heterogeneous delays. , 2011, , .		1
45	RPIM: Inferring BGP Routing Policies in ISP Networks. , 2011, , .		1
46	DesktopDC. , 2014, , .		1
47	VirtualRack: Bandwidth-aware virtual network allocation for multi-tenant datacenters. , 2014, , .		1
48	RED with optimized dynamic threshold deployment on shared buffer. , 0, , .		0
49	A Trace Study for Characteristics of Packet Arrivals. , 0, , .		0
50	Parallel DFA Architecture for Ultra High Throughput DFA-Based Pattern Matching. IEICE Transactions on Information and Systems, 2010, E93-D, 3232-3242.	0.4	0
51	Measurements on movie distribution behavior in Peer-to-Peer networks. , 2011, , .		0
52	Control Theoretic Analysis of eXplicit Control Protocol with Short-Lived Traffic. , 2011, , .		0
53	Deterministic end-to-end delay analysis in an avionics network. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2013, 227, 1583-1595.	0.7	0
54	Landmark-Centric Routing for Wireless Sensor Networks in Mobile Delay Tolerant Environments. International Journal of Distributed Sensor Networks, 2014, 10, 901818.	1.3	0

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55	Kuijia: Traffic rescaling in data center WANs. , 2016, , .		0
56	CounterMap: Towards generic traffic statistics collection and query in Software Defined Network. , 2017, , .		0
57	Rethinking the SDN Abstraction. , 2017, , .		0
58	Towards a Fast Regular Expression Matching Method Over Compressed Traffic. , 2018, , .		0
59	DIAL: Distributed Elephant Flow Counting on SDN. , 2018, , .		0