

George Varghese

List of Publications by Year in descending order

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46
papers

7,225
citations

361045

20
h-index

433756

31
g-index

47
all docs

47
docs citations

47
times ranked

3160
citing authors

#	ARTICLE	IF	CITATIONS
1	P4. Computer Communication Review, 2014, 44, 87-95.	1.5	1,871
2	Forwarding metamorphosis. , 2013, , .		439
3	New directions in traffic measurement and accounting. ACM Transactions on Computer Systems, 2003, 21, 270-313.	0.6	438
4	Scalable high speed IP routing lookups. , 1997, , .		373
5	New directions in traffic measurement and accounting. , 2002, , .		354
6	Forwarding metamorphosis. Computer Communication Review, 2013, 43, 99-110.	1.5	318
7	Efficient fair queueing using deficit round robin. , 1995, , .		314
8	Efficient fair queueing using deficit round robin. Computer Communication Review, 1995, 25, 231-242.	1.5	241
9	Building a better NetFlow. , 2004, , .		236
10	Tree bitmap. Computer Communication Review, 2004, 34, 97-122.	1.5	233
11	Scalable high speed IP routing lookups. Computer Communication Review, 1997, 27, 25-36.	1.5	194
12	Packet Transactions. , 2016, , .		193
13	Faster IP lookups using controlled prefix expansion. , 1998, , .		172
14	Bitmap algorithms for counting active flows on high speed links. , 2003, , .		163
15	Automatic test packet generation. , 2012, , .		160
16	New directions in traffic measurement and accounting. Computer Communication Review, 2002, 32, 323-336.	1.5	117
17	Beyond bloom filters. Computer Communication Review, 2006, 36, 315-326.	1.5	106
18	Building a better NetFlow. Computer Communication Review, 2004, 34, 245-256.	1.5	100

#	ARTICLE	IF	CITATIONS
19	Using Genome Query Language to uncover genetic variation. <i>Bioinformatics</i> , 2014, 30, 1-8.	1.8	96
20	Scalable packet classification. <i>Computer Communication Review</i> , 2001, 31, 199-210.	1.5	83
21	Compressing Genomic Sequence Fragments Using S _{lim} G _{ene} . <i>Journal of Computational Biology</i> , 2011, 18, 401-413.	0.8	70
22	Efficient implementation of a statistics counter architecture. , 2003, , .		67
23	A reliable and scalable striping protocol. <i>Computer Communication Review</i> , 1996, 26, 131-141.	1.5	66
24	Netshare and stochastic netshare. <i>Computer Communication Review</i> , 2012, 42, 5-11.	1.5	63
25	Design principles for packet parsers. , 2013, , .		63
26	On Scalable Attack Detection in the Network. <i>IEEE/ACM Transactions on Networking</i> , 2007, 15, 14-25.	2.6	59
27	Hash-Based Techniques for High-Speed Packet Processing. <i>Computer Communications and Networks</i> , 2010, , 181-218.	0.8	53
28	Faster IP lookups using controlled prefix expansion. <i>Performance Evaluation Review</i> , 1998, 26, 1-10.	0.4	50
29	High Speed Networks Need Proactive Congestion Control. , 2015, , .		48
30	Self-Stabilization by Counter Flushing. <i>SIAM Journal on Computing</i> , 2000, 30, 486-510.	0.8	35
31	Leaping Multiple Headers in a Single Bound: Wire-Speed Parsing Using the Kangaroo System. , 2010, , .		30
32	Constraint satisfaction as a basis for designing nonmasking fault-tolerance. <i>Journal of High Speed Networks</i> , 1996, 5, 293-306.	0.6	25
33	The measurement manifesto. <i>Computer Communication Review</i> , 2004, 34, 9-14.	1.5	24
34	Memory-efficient state lookups with fast updates. , 2000, , .		23
35	Parallelism versus Memory Allocation in Pipelined Router Forwarding Engines. <i>Theory of Computing Systems</i> , 2006, 39, 829-849.	0.7	23
36	A Time-Optimal Self-Stabilizing Synchronizer Using A Phase Clock. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2007, 4, 180-190.	3.7	22

#	ARTICLE	IF	CITATIONS
37	Every microsecond counts. Computer Communication Review, 2009, 39, 255-266.	1.5	20
38	Self-stabilizing end-to-end communication. Journal of High Speed Networks, 1996, 5, 365-381.	0.6	18
39	ddNF: An Efficient Data Structure for Header Spaces. Lecture Notes in Computer Science, 2016, , 49-64.	1.0	16
40	Scaling network verification using symmetry and surgery. ACM SIGPLAN Notices, 2016, 51, 69-83.	0.2	13
41	Abstractions for genomics. Communications of the ACM, 2013, 56, 83-93.	3.3	12
42	Router Support for Fine-Grained Latency Measurements. IEEE/ACM Transactions on Networking, 2012, 20, 811-824.	2.6	7
43	Life in the Fast Lane. Computer Communication Review, 2015, 45, 19-25.	1.5	6
44	Introducing Network Algorithmics. , 2005, , 3-15.		5
45	FineComb: Measuring Microscopic Latency and Loss in the Presence of Reordering. IEEE/ACM Transactions on Networking, 2014, 22, 1136-1149.	2.6	4
46	The pessimism behind optimistic simulation. ACM SIGSIM Simulation Digest, 1994, 24, 126-131.	0.1	0