George Varghese

List of Publications by Year
in descending order

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	Packet Transactions. , 2016, , .		193
2	ddNF: An Efficient Data Structure for Header Spaces. Lecture Notes in Computer Science, 2016, , 49-64.	1.0	16
3	Scaling network verification using symmetry and surgery. ACM SIGPLAN Notices, 2016, 51, 69-83.	0.2	13
4	High Speed Networks Need Proactive Congestion Control. , 2015, , .		48
5	Life in the Fast Lane. Computer Communication Review, 2015, 45, 19-25.	1.5	6
6	P4. Computer Communication Review, 2014, 44, 87-95.	1.5	1,871
7	Using Genome Query Language to uncover genetic variation. Bioinformatics, 2014, 30, 1-8.	1.8	96
8	FineComb: Measuring Microscopic Latency and Loss in the Presence of Reordering. IEEE/ACM Transactions on Networking, 2014, 22, 1136-1149.	2.6	4
9	Design principles for packet parsers. , 2013, , .		63
10	Forwarding metamorphosis. , 2013, , .		439
11	Abstractions for genomics. Communications of the ACM, 2013, 56, 83-93.	3.3	12
12	Forwarding metamorphosis. Computer Communication Review, 2013, 43, 99-110.	1.5	318
13	Netshare and stochastic netshare. Computer Communication Review, 2012, 42, 5-11.	1.5	63
14	Router Support for Fine-Grained Latency Measurements. IEEE/ACM Transactions on Networking, 2012, 20, 811-824.	2.6	7
15	Automatic test packet generation. , 2012, , .		160
16	Compressing Genomic Sequence Fragments Using SlimGene. Journal of Computational Biology, 2011, 18, 401-413.	0.8	70
17	Leaping Multiple Headers in a Single Bound: Wire-Speed Parsing Using the Kangaroo System. , 2010, , .		30
18	Hash-Based Techniques for High-Speed Packet Processing. Computer Communications and Networks, 2010, , 181-218.	0.8	53

#	ARTICLE	IF	CITATIONS
19	Every microsecond counts. Computer Communication Review, 2009, 39, 255-266.	1.5	20
20	A Time-Optimal Self-Stabilizing Synchronizer Using A Phase Clock. IEEE Transactions on Dependable and Secure Computing, 2007, 4, 180-190.	3.7	22
21	On Scalable Attack Detection in the Network. IEEE/ACM Transactions on Networking, 2007, 15, 14-25.	2.6	59
22	Parallelism versus Memory Allocation in Pipelined Router Forwarding Engines. Theory of Computing Systems, 2006, 39, 829-849.	0.7	23
23	Beyond bloom filters. Computer Communication Review, 2006, 36, 315-326.	1.5	106
24	Introducing Network Algorithmics. , 2005, , 3-15.		5
25	Building a better NetFlow. Computer Communication Review, 2004, 34, 245-256.	1.5	100
26	Building a better NetFlow. , 2004, , .		236
27	Tree bitmap. Computer Communication Review, 2004, 34, 97-122.	1.5	233
28	The measurement manifesto. Computer Communication Review, 2004, 34, 9-14.	1.5	24
29	New directions in traffic measurement and accounting. ACM Transactions on Computer Systems, 2003, 21, 270-313.	0.6	438
30	Efficient implementation of a statistics counter architecture. , 2003, , .		67
31	Bitmap algorithms for counting active flows on high speed links. , 2003, , .		163
32	New directions in traffic measurement and accounting. , 2002, , .		354
33	New directions in traffic measurement and accounting. Computer Communication Review, 2002, 32, 323-336.	1.5	117
34	Scalable packet classification. Computer Communication Review, 2001, 31, 199-210.	1.5	83
35	Memory-efficient state lookups with fast updates. , 2000, , .		23
36	Self-Stabilization by Counter Flushing. SIAM Journal on Computing, 2000, 30, 486-510.	0.8	35

#	Article	IF	Citations
37	Faster IP lookups using controlled prefix expansion. , 1998, , .		172
38	Faster IP lookups using controlled prefix expansion. Performance Evaluation Review, 1998, 26, 1-10.	0.4	50
39	Scalable high speed IP routing lookups. Computer Communication Review, 1997, 27, 25-36.	1.5	194
40	Scalable high speed IP routing lookups. , 1997, , .		373
41	Constraint satisfaction as a basis for designing nonmasking fault-tolerance. Journal of High Speed Networks, 1996, 5, 293-306.	0.6	25
42	Self-stabilizing end-to-end communication. Journal of High Speed Networks, 1996, 5, 365-381.	0.6	18
43	A reliable and scalable striping protocol. Computer Communication Review, 1996, 26, 131-141.	1.5	66
44	Efficient fair queueing using deficit round robin. , 1995, , .		314
45	Efficient fair queueing using deficit round robin. Computer Communication Review, 1995, 25, 231-242.	1.5	241
46	The pessimism behind optimistic simulation. ACM SIGSIM Simulation Digest, 1994, 24, 126-131.	0.1	0