

Sartaj Sahni

List of Publications by Year in descending order

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71
papers

894
citations

566801

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580395

25
g-index

71
all docs

71
docs citations

71
times ranked

515
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximation Algorithms for Sensor Deployment. IEEE Transactions on Computers, 2007, 56, 1681-1695.	2.4	66
2	Two Techniques for Fast Computation of Constrained Shortest Paths. IEEE/ACM Transactions on Networking, 2008, 16, 105-115.	2.6	61
3	A B-Tree Dynamic Router-Table Design. IEEE Transactions on Computers, 2005, 54, 813-824.	2.4	43
4	Network upgrading problems. Networks, 1995, 26, 45-58.	1.6	41
5	Efficient Construction of Pipelined Multibit-Trie Router-Tables. IEEE Transactions on Computers, 2007, 56, 32-43.	2.4	38
6	Bandwidth Scheduling and Path Computation Algorithms for Connection-Oriented Networks. , 2007, , .		38
7	Strassen's Matrix Multiplication on GPUs. , 2011, , .		36
8	The master-slave paradigm in parallel computer and industrial settings. Journal of Global Optimization, 1996, 9, 357-377.	1.1	34
9	Data Structures for One-Dimensional Packet Classification Using Most-Specific-Rule Matching. International Journal of Foundations of Computer Science, 2003, 14, 337-358.	0.8	34
10	$O(\log n)$ dynamic router-tables for prefixes and ranges. IEEE Transactions on Computers, 2004, 53, 1217-1230.	2.4	32
11	GPU-to-GPU and Host-to-Host Multipattern String Matching on a GPU. IEEE Transactions on Computers, 2013, 62, 1156-1169.	2.4	32
12	String correction using the Damerau-Levenshtein distance. BMC Bioinformatics, 2019, 20, 277.	1.2	31
13	$O(\log W)$ Multidimensional Packet Classification. IEEE/ACM Transactions on Networking, 2007, 15, 462-472.	2.6	28
14	PETCAM—A Power Efficient TCAM Architecture for Forwarding Tables. IEEE Transactions on Computers, 2012, 61, 3-17.	2.4	24
15	Multipattern string matching on a GPU. , 2011, , .		22
16	Cache and energy efficient algorithms for Nussinov's RNA Folding. BMC Bioinformatics, 2017, 18, 518.	1.2	20
17	MODELS AND ALGORITHMS FOR OPTICAL AND OPTOELECTRONIC PARALLEL COMPUTERS. International Journal of Foundations of Computer Science, 2001, 12, 249-264.	0.8	19
18	DUOS - Simple dual TCAM architecture for routing tables with incremental update. , 2010, , .		19

#	ARTICLE	IF	CITATIONS
19	Dual criteria preemptive open-shop problems with minimum makespan. Naval Research Logistics, 1995, 42, 103-121.	1.4	17
20	Dynamic Tree Bitmap for IP Lookup and Update. , 2007, , .		17
21	PC-TRIO: A Power Efficient TCAM Architecture for Packet Classifiers. IEEE Transactions on Computers, 2015, 64, 1104-1118.	2.4	15
22	Enhancing Availability in Content Delivery Networks for Mobile Platforms. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2247-2257.	4.0	14
23	An Evaluation of In-Advance Bandwidth Scheduling Algorithms for Connection-Oriented Networks. Parallel Architectures, Algorithms and Networks (I-SPAN), Proceedings of the International Symposium on, 2008, , .	0.0	13
24	PETCAM-A power Efficient TCAM for forwarding tables. , 2009, , .		12
25	In-advance path reservation for file transfers in science applications. Journal of Supercomputing, 2012, 59, 1167-1187.	2.4	12
26	Succinct Representation of Static Packet Classifiers. IEEE/ACM Transactions on Networking, 2009, 17, 803-816.	2.6	10
27	Network Topology Optimization for Data Aggregation. , 2014, , .		10
28	Dynamic Data-Driven SAR Image Reconstruction Using Multiple GPUs. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4326-4338.	2.3	10
29	DATA MANIPULATION ON THE DISTRIBUTED MEMORY BUS COMPUTER. Parallel Processing Letters, 1995, 05, 3-14.	0.4	9
30	Recursively Partitioned Static IP Router Tables. IEEE Transactions on Computers, 2010, 59, 1683-1690.	2.4	9
31	PC-DUOS: Fast TCAM lookup and update for packet classifiers. , 2011, , .		9
32	GRS — GPU radix sort for multifield records. , 2010, , .		8
33	Pairwise sequence alignment for very long sequences on GPUs. International Journal of Bioinformatics Research and Applications, 2014, 10, 345.	0.1	8
34	Pubsub: An Efficient Publish/Subscribe System. IEEE Transactions on Computers, 2015, 64, 1119-1132.	2.4	8
35	In-advance path reservation for file transfers In e-Science applications. , 2009, , .		7
36	Highly compressed multi-pattern string matching on the cell broadband engine. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
37	Dynamic data driven image reconstruction using multiple GPUs. , 2016, , .		7
38	Linear space string correction algorithm using the Damerau-Levenshtein distance. BMC Bioinformatics, 2020, 21, 4.	1.2	7
39	A computational geometry method for DTOA triangulation. , 2007, , .		6
40	Packet Classification Using Space-Efficient Pipelined Multibit Tries. IEEE Transactions on Computers, 2008, 57, 591-605.	2.4	6
41	Highly compressed Aho-Corasick automata for efficient intrusion detection. , 2008, , .		5
42	CONSIST-Consistent Internet route updates. , 2010, , .		5
43	Sorting large records on a cell broadband engine. , 2010, , .		4
44	Efficient Algorithms for Computing With Protein-Based Volumetric Memory Processors. IEEE Nanotechnology Magazine, 2011, 10, 881-890.	1.1	4
45	Network topology optimization for data aggregation with splitting. , 2014, , .		4
46	Succinct Representation of Static Packet Forwarding Tables. , 2007, , .		3
47	Sorting on a Cell Broadband Engine SPU. , 2009, , .		3
48	Network topology optimisation for data aggregation using multiple paths. International Journal of Metaheuristics, 2015, 4, 115.	0.1	3
49	Two-aggregator network topology optimization with splitting. , 2015, , .		3
50	Multiobjective Optimization of SAR Reconstruction on Hybrid Multicore Systems. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4674-4688.	2.3	3
51	HISTOGRAMMING ON A RECONFIGURABLE MESH COMPUTER— . International Journal of Parallel, Emergent and Distributed Systems, 1993, 1, 179-190.	0.4	2
52	Two techniques for fast computation of constrained shortest paths. , 0, , .		2
53	Recursively Partitioned Static IP Router-Tables. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	2
54	Sorting Large Multifield Records on a GPU. , 2011, , .		2

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55	Offline first-fit decreasing height scheduling of power loads. Journal of Scheduling, 2017, 20, 527-542.	1.3	2
56	Efficient RNA folding using Zuker's method. , 2017, , .		2
57	Two-Aggregator Topology Optimization Using Single Paths in Data Center Networks. IEEE Transactions on Cloud Computing, 2021, 9, 807-820.	3.1	2
58	Data Structures and Algorithms for Packet Forwarding and Classification. , 2009, , .		1
59	First-Slot scheduling with wavelength conversion for distributed file transfers. , 2010, , .		1
60	Bandwidth Allocation for Iterative Data-Dependent E-science Applications. , 2010, , .		1
61	Linear Space String Correction Algorithm Using The Damerau-Levenshtein Distance. , 2018, , .		1
62	Flipping Modules to Minimize Maximum Wire Length. VLSI Design, 1995, 3, 37-41.	0.5	0
63	A Fast Algorithm for Performance-Driven Module Implementation Selection. VLSI Design, 1999, 10, 237-247.	0.5	0
64	Power Assignment for Symmetric Communication in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2009, 5, 185-200.	1.3	0
65	Topology Aggregation for E-science Networks. , 2010, , .		0
66	Multicore and GPU algorithms for nussinov RNA folding. , 2013, , .		0
67	Cache and energy efficient algorithms for Nussinov RNA folding. , 2016, , .		0
68	Efficient computation of the Damerau-Levenshtein distance between biological sequences. , 2017, , .		0
69	Dynamic Data Driven SAR Reconstruction on Hybrid Multicore systems. , 2018, , .		0
70	Performance and Energy Evaluation of SAR Reconstruction on Intel Knights Landing. , 2018, , .		0
71	Performance Driven Graph Enhancement Problems. , 1993, , 299-322.		0