

Sartaj Sahni

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Aggregator Topology Optimization Using Single Paths in Data Center Networks. IEEE Transactions on Cloud Computing, 2021, 9, 807-820.	3.1	2
2	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
3	Linear space string correction algorithm using the Damerau-Levenshtein distance. BMC Bioinformatics, 2020, 21, 4.	1.2	7
4	String correction using the Damerau-Levenshtein distance. BMC Bioinformatics, 2019, 20, 277.	1.2	31
5	Dynamic Data Driven SAR Reconstruction on Hybrid Multicore systems. , 2018, , .		0
6	Linear Space String Correction Algorithm Using The Damerau-Levenshtein Distance. , 2018, , .		1
7	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
8	Performance and Energy Evaluation of SAR Reconstruction on Intel Knights Landing. , 2018, , .		0
9	Offline first-fit decreasing height scheduling of power loads. Journal of Scheduling, 2017, 20, 527-542.	1.3	2
10	Efficient computation of the Damerau-Levenshtein distance between biological sequences. , 2017, , .		0
11	Efficient RNA folding using Zuker's method. , 2017, , .		2
12	Cache and energy efficient algorithms for Nussinov's RNA Folding. BMC Bioinformatics, 2017, 18, 518.	1.2	20
13	Dynamic data driven image reconstruction using multiple GPUs. , 2016, , .		7
14	Cache and energy efficient algorithms for Nussinov RNA folding. , 2016, , .		0
15	Network topology optimisation for data aggregation using multiple paths. International Journal of Metaheuristics, 2015, 4, 115.	0.1	3
16	Two-aggregator network topology optimization with splitting. , 2015, , .		3
17	Pubsub: An Efficient Publish/Subscribe System. IEEE Transactions on Computers, 2015, 64, 1119-1132.	2.4	8
18	PC-TRIO: A Power Efficient TCAM Architecture for Packet Classifiers. IEEE Transactions on Computers, 2015, 64, 1104-1118.	2.4	15

#	ARTICLE	IF	CITATIONS
19	Enhancing Availability in Content Delivery Networks for Mobile Platforms. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2247-2257.	4.0	14
20	Network topology optimization for data aggregation with splitting. , 2014, , .		4
21	Pairwise sequence alignment for very long sequences on GPUs. International Journal of Bioinformatics Research and Applications, 2014, 10, 345.	0.1	8
22	Network Topology Optimization for Data Aggregation. , 2014, , .		10
23	GPU-to-GPU and Host-to-Host Multipattern String Matching on a GPU. IEEE Transactions on Computers, 2013, 62, 1156-1169.	2.4	32
24	Multicore and GPU algorithms for nussinov RNA folding. , 2013, , .		0
25	PETCAM—A Power Efficient TCAM Architecture for Forwarding Tables. IEEE Transactions on Computers, 2012, 61, 3-17.	2.4	24
26	In-advance path reservation for file transfers in science applications. Journal of Supercomputing, 2012, 59, 1167-1187.	2.4	12
27	Sorting Large Multifield Records on a GPU. , 2011, , .		2
28	Highly compressed multi-pattern string matching on the cell broadband engine. , 2011, , .		7
29	PC-DUOS: Fast TCAM lookup and update for packet classifiers. , 2011, , .		9
30	Multipattern string matching on a GPU. , 2011, , .		22
31	Strassen's Matrix Multiplication on GPUs. , 2011, , .		36
32	Efficient Algorithms for Computing With Protein-Based Volumetric Memory Processors. IEEE Nanotechnology Magazine, 2011, 10, 881-890.	1.1	4
33	Topology Aggregation for E-science Networks. , 2010, , .		0
34	First-Slot scheduling with wavelength conversion for distributed file transfers. , 2010, , .		1
35	Sorting large records on a cell broadband engine. , 2010, , .		4
36	Recursively Partitioned Static IP Router Tables. IEEE Transactions on Computers, 2010, 59, 1683-1690.	2.4	9

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37	CONSIST-Consistent Internet route updates. , 2010, , .		5
38	GRS — GPU radix sort for multifold records. , 2010, , .		8
39	Bandwidth Allocation for Iterative Data-Dependent E-science Applications. , 2010, , .		1
40	DUOS - Simple dual TCAM architecture for routing tables with incremental update. , 2010, , .		19
41	Succinct Representation of Static Packet Classifiers. IEEE/ACM Transactions on Networking, 2009, 17, 803-816.	2.6	10
42	Power Assignment for Symmetric Communication in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2009, 5, 185-200.	1.3	0
43	Data Structures and Algorithms for Packet Forwarding and Classification. , 2009, , .		1
44	In-advance path reservation for file transfers In e-Science applications. , 2009, , .		7
45	Sorting on a Cell Broadband Engine SPU. , 2009, , .		3
46	PETCAM-A power Efficient TCAM for forwarding tables. , 2009, , .		12
47	Packet Classification Using Space-Efficient Pipelined Multibit Tries. IEEE Transactions on Computers, 2008, 57, 591-605.	2.4	6
48	Two Techniques for Fast Computation of Constrained Shortest Paths. IEEE/ACM Transactions on Networking, 2008, 16, 105-115.	2.6	61
49	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
50	Highly compressed Aho-Corasick automata for efficient intrusion detection. , 2008, , .		5
51	Dynamic Tree Bitmap for IP Lookup and Update. , 2007, , .		17
52	Approximation Algorithms for Sensor Deployment. IEEE Transactions on Computers, 2007, 56, 1681-1695.	2.4	66
53	Efficient Construction of Pipelined Multibit-Trie Router-Tables. IEEE Transactions on Computers, 2007, 56, 32-43.	2.4	38
54	Bandwidth Scheduling and Path Computation Algorithms for Connection-Oriented Networks. , 2007, , .		38

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55	$O(\log W)$ Multidimensional Packet Classification. IEEE/ACM Transactions on Networking, 2007, 15, 462-472.	2.6	28
56	Succinct Representation of Static Packet Forwarding Tables. , 2007, , .		3
57	Recursively Partitioned Static IP Router-Tables. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	2
58	A computational geometry method for DTOA triangulation. , 2007, , .		6
59	A B-Tree Dynamic Router-Table Design. IEEE Transactions on Computers, 2005, 54, 813-824.	2.4	43
60	$O(\log n)$ dynamic router-tables for prefixes and ranges. IEEE Transactions on Computers, 2004, 53, 1217-1230.	2.4	32
61	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
62	MODELS AND ALGORITHMS FOR OPTICAL AND OPTOELECTRONIC PARALLEL COMPUTERS. International Journal of Foundations of Computer Science, 2001, 12, 249-264.	0.8	19
63	A Fast Algorithm for Performance-Driven Module Implementation Selection. VLSI Design, 1999, 10, 237-247.	0.5	0
64	The master-slave paradigm in parallel computer and industrial settings. Journal of Global Optimization, 1996, 9, 357-377.	1.1	34
65	Dual criteria preemptive open-shop problems with minimum makespan. Naval Research Logistics, 1995, 42, 103-121.	1.4	17
66	Network upgrading problems. Networks, 1995, 26, 45-58.	1.6	41
67	Flipping Modules to Minimize Maximum Wire Length. VLSI Design, 1995, 3, 37-41.	0.5	0
68	DATA MANIPULATION ON THE DISTRIBUTED MEMORY BUS COMPUTER. Parallel Processing Letters, 1995, 05, 3-14.	0.4	9
69	HISTOGRAMMING ON A RECONFIGURABLE MESH COMPUTER— . International Journal of Parallel, Emergent and Distributed Systems, 1993, 1, 179-190.	0.4	2
70	Performance Driven Graph Enhancement Problems. , 1993, , 299-322.		0
71	Two techniques for fast computation of constrained shortest paths. , 0, , .		2