Mithuna Thottethodi

List of Publications by Year
in descending order

41 papers	1,187 citations	1307594 7 h-index	1372567 10 g-index
41 all docs	41 docs citations	41 times ranked	821 citing authors

#	Article	IF	Citations
1	Architectural support for operating system-driven CMP cache management. , 2006, , .		175
2	SparTen. , 2019, , .		144
3	Nonlinear array layouts for hierarchical memory systems. , 1999, , .		116
4	SieveStore. , 2010, , .		85
5	A Mostly-Clean DRAM Cache for Effective Hit Speculation and Self-Balancing Dispatch. , 2012, , .		74
6	Recursive array layouts and fast matrix multiplication. IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 1105-1123.	5.6	71
7	Recursive array layouts and fast parallel matrix multiplication. , 1999, , .		65
8	Dynamic server provisioning to minimize cost in an IaaS cloud. , 2011, , .		53
9	Understanding and mitigating the impact of load imbalance in the memory caching tier. , 2013, , .		49
10	Newton: A DRAM-maker's Accelerator-in-Memory (AiM) Architecture for Machine Learning. , 2020, , .		48
11	MapReduce with communication overlap (MaRCO). Journal of Parallel and Distributed Computing, 2013, 73, 608-620.	4.1	44
12	Effective Management of DRAM Bandwidth in Multicore Processors. Parallel Architecture and Compilation Techniques (PACT), Proceedings of the International Conference on, 2007, , .	0.0	39
13	Exploiting global knowledge to achieve self-tuned congestion control for k-ary n-cube networks. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 257-272.	5.6	30
14	Adaptive Flow Control for Robust Performance and Energy. , 2010, , .		28
15	Trifecta: A Nonspeculative Scheme to Exploit Common, Data-Dependent Subcritical Paths. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2010, 18, 53-65.	3.1	24
16	Software-programmable continuous-flow multi-purpose lab-on-a-chip. Microfluidics and Nanofluidics, 2013, 15, 647-659.	2.2	24
17	Aquacore. , 2007, , .		23
18	RAHTM: Routing Algorithm Aware Hierarchical Task Mapping. , 2014, , .		13

#	Article	IF	Citations
19	Dart: Divide and Specialize for Fast Response to Congestion in RDMA-Based Datacenter Networks. IEEE/ACM Transactions on Networking, 2020, 28, 322-335.	3.8	11
20	Selective commitment and selective margin: Techniques to minimize cost in an IaaS cloud. , 2012, , .		9
21	Automatic volume management for programmable microfluidics. , 2008, , .		8
22	Karma: Cost-Effective Geo-Replicated Cloud Storage with Dynamic Enforcement of Causal Consistency. IEEE Transactions on Cloud Computing, 2021, 9, 197-211.	4.4	8
23	Aquacore. Computer Architecture News, 2007, 35, 254-265.	2.5	6
24	LiteTM: Reducing transactional state overhead. , 2010, , .		5
25	Disjoint-path routing: Efficient communication for streaming applications. , 2009, , .		4
26	TransCom. , 2011, , .		4
27	Extended Task Queuing: Active Messages for Heterogeneous Systems. , 2016, , .		4
28	NutShell. , 2017, , .		4
29	PreTrans: Reducing TLB CAM-search via page number prediction and speculative pre-translation. , 2013, , .		3
30	Fast Congestion Control in RDMA-based Datacenter Networks. , 2018, , .		3
31	Secure automatic bounds checking: prevention is simpler than cure. , 2020, , .		3
32	Table-lookup based Crossbar Arbitration for Minimal-Routed, 2D Mesh and Torus Networks. , 2007, , .		2
33	Evaluating ISA Support and Hardware Support for Recursive Data Layouts. , 2007, , 95-106.		2
34	Network Interface Architecture for Remote Indirect Memory Access (RIMA) in Datacenters. Transactions on Architecture and Code Optimization, 2020, 17, 1-22.	2.0	2
35	Undergraduate dual-core prototyping and analysis of factors influencing student success on dual-core designs. , 2009, , .		1
36	MorphStore: A local file system for Big Data with utility-driven replication and load-adaptive access scheduling. , 2014, , .		1

#	Article	IF	Citations
37	Scalable, Global, Optimal-bandwidth, Application-Specific Routing. , 2016, , .		1
38	Millipede: Die-Stacked Memory Optimizations for Big Data Machine Learning Analytics. , 2018, , .		1
39	Automatic volume management for programmable microfluidics. ACM SIGPLAN Notices, 2008, 43, 56-67.	0.2	0
40	Efficient Collaborative Approximation in MapReduce without Missing Rare Keys. , 2017, , .		0
41	ACCORD: Automated Change Coordination across Independently Administered Cloud Services. , 2018, , .		0