

List of Publications by Year in descending order

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1409
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#	ARTICLE	IF	CITATIONS
1	A new theory of deadlock-free adaptive routing in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 1993, 4, 1320-1331.	5.6	669
2	A necessary and sufficient condition for deadlock-free adaptive routing in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 1055-1067.	5.6	292
3	rCUDA: Reducing the number of GPU-based accelerators in high performance clusters. , 2010, , .		179
4	A necessary and sufficient condition for deadlock-free routing in cut-through and store-and-forward networks. IEEE Transactions on Parallel and Distributed Systems, 1996, 7, 841-854.	5.6	114
5	A Survey and Evaluation of Topology-Agnostic Deterministic Routing Algorithms. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 405-425.	5.6	89
6	Efficient unicast and multicast support for CMPs. , 2008, , .		79
7	A routing methodology for achieving fault tolerance in direct networks. IEEE Transactions on Computers, 2006, 55, 400-415.	3.4	76
8	A general theory for deadlock-free adaptive routing using a mixed set of resources. IEEE Transactions on Parallel and Distributed Systems, 2001, 12, 1219-1235.	5.6	74
9	Improving the performance of distributed virtual environment systems. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 637-649.	5.6	73
10	Logic-Based Distributed Routing for NoCs. IEEE Computer Architecture Letters, 2008, 7, 13-16.	1.5	73
11	A theory of fault-tolerant routing in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 1997, 8, 790-802.	5.6	72
12	A family of mechanisms for congestion control in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 772-784.	5.6	64
13	A complete and efficient CUDA-sharing solution for HPC clusters. Parallel Computing, 2014, 40, 574-588.	2.1	64
14	High-performance routing in networks of workstations with irregular topology. IEEE Transactions on Parallel and Distributed Systems, 2000, 11, 699-719.	5.6	63
15	Deadlock-free dynamic reconfiguration schemes for increased network dependability. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 780-794.	5.6	63
16	Performance evaluation of adaptive routing algorithms for k-ary n-cubes. Lecture Notes in Computer Science, 1994, , 45-59.	1.3	62
17	A protocol for deadlock-free dynamic reconfiguration in high-speed local area networks. IEEE Transactions on Parallel and Distributed Systems, 2001, 12, 115-132.	5.6	62
18	Enabling CUDA acceleration within virtual machines using rCUDA. , 2011, , .		55

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19	An Efficient Implementation of Distributed Routing Algorithms for NoCs. , 2008, , .		54
20	An Efficient Fault-Tolerant Routing Methodology for Meshes and Tori. IEEE Computer Architecture Letters, 2004, 3, 3-3.	1.5	50
21	An Efficient and Deadlock-Free Network Reconfiguration Protocol. IEEE Transactions on Computers, 2008, 57, 762-779.	3.4	50
22	Region-Based Routing: A Mechanism to Support Efficient Routing Algorithms in NoCs. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 356-369.	3.1	50
23	An effective methodology to improve the performance of the up*/down* routing algorithm. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 740-754.	5.6	49
24	A theory of deadlock-free adaptive multicast routing in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 976-987.	5.6	48
25	Cost-Efficient On-Chip Routing Implementations for CMP and MPSoC Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2011, 30, 534-547.	2.7	44
26	Efficient, Scalable Congestion Management for Interconnection Networks. IEEE Micro, 2006, 26, 52-66.	1.8	43
27	A theory for deadlock-free dynamic network reconfiguration. Part I. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 412-427.	5.6	39
28	A simple power-aware scheduling for multicore systems when running real-time applications. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	39
29	Efficient implementation of distributed routing algorithms for NoCs. IET Computers and Digital Techniques, 2009, 3, 460.	1.2	39
30	Buffer Management Strategies to Reduce HoL Blocking. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 739-753.	5.6	39
31	Deadlock-free adaptive routing algorithms for the 3D-torus: Limitations and solutions. Lecture Notes in Computer Science, 1993, , 684-687.	1.3	38
32	An efficient implementation of tree-based multicast routing for distributed shared-memory multiprocessors. Journal of Systems Architecture, 2000, 46, 1019-1032.	4.3	38
33	QoS in InfiniBand subnetworks. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 810-823.	5.6	38
34	A Necessary and Sufficient Condition for Deadlock-Free Adaptive Routing in Wormhole Networks. , 1994, , .		37
35	A two-level directory architecture for highly scalable cc-NUMA multiprocessors. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 67-79.	5.6	37
36	A new proposal to deal with congestion in InfiniBand-based fat-trees. Journal of Parallel and Distributed Computing, 2014, 74, 1802-1819.	4.1	36

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37	Dynamic Fault Tolerance in Fat Trees. IEEE Transactions on Computers, 2011, 60, 508-525.	3.4	31
38	A Latency-Aware Partitioning Method for Distributed Virtual Environment Systems. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1215-1226.	5.6	30
39	Fc3d: flow control-based distributed deadlock detection mechanism for true fully adaptive routing in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 765-779.	5.6	29
40	A methodology for developing deadlock-free dynamic network reconfiguration processes. Part II. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 428-443.	5.6	27
41	Performance of CUDA Virtualized Remote GPUs in High Performance Clusters. , 2011, , .		27
42	A Comparison of Router Architectures for Virtual Cut-Through and Wormhole Switching in a NOW Environment. Journal of Parallel and Distributed Computing, 2001, 61, 224-253.	4.1	26
43	Reducing Packet Dropping in a Bufferless NoC. Lecture Notes in Computer Science, 2008, , 899-909.	1.3	26
44	Exploring High-Dimensional Topologies for NoC Design Through an Integrated Analysis and Synthesis Framework. , 2008, , .		25
45	On the Potentials of Segment-Based Routing for NoCs. , 2008, , .		25
46	Increasing the Effectiveness of Directory Caches by Avoiding the Tracking of Noncoherent Memory Blocks. IEEE Transactions on Computers, 2013, 62, 482-495.	3.4	25
47	A Low Overhead Fault Tolerant Coherence Protocol for CMP Architectures. , 2007, , .		24
48	On the development of a communication-aware task mapping technique. Journal of Systems Architecture, 2004, 50, 207-220.	4.3	23
49	On the Potential of NoC Virtualization for Multicore Chips. , 2008, , .		23
50	A Flexible Routing Scheme for Networks of Workstations. Lecture Notes in Computer Science, 2000, , 260-267.	1.3	22
51	An Efficient Implementation of GPU Virtualization in High Performance Clusters. Lecture Notes in Computer Science, 2010, , 385-394.	1.3	22
52	Efficient and Cost-Effective Hybrid Congestion Control for HPC Interconnection Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 107-119.	5.6	22
53	Dynamically configurable message flow control for fault-tolerant routing. IEEE Transactions on Parallel and Distributed Systems, 1999, 10, 7-22.	5.6	21
54	Cache-Hierarchy Contention-Aware Scheduling in CMPs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 581-590.	5.6	21

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55	A Communication-Aware Topological Mapping Technique for NoCs. Lecture Notes in Computer Science, 2008, , 910-919.	1.3	21
56	Perf&Fair: A Progress-Aware Scheduler to Enhance Performance and Fairness in SMT Multicores. IEEE Transactions on Computers, 2017, 66, 905-911.	3.4	20
57	An hybrid eDRAM/SRAM macrocell to implement first-level data caches. , 2009, , .		20
58	A cost-effective approach to deadlock handling in wormhole networks. IEEE Transactions on Parallel and Distributed Systems, 2001, 12, 716-729.	5.6	19
59	A methodology for the characterization of process variation in NoC links. , 2010, , .		19
60	Power-aware scheduling with effective task migration for real-time multicore embedded systems. Concurrency Computation Practice and Experience, 2013, 25, 1987-2001.	2.2	19
61	An Effective and Feasible Congestion Management Technique for High-Performance MINs with Tag-Based Distributed Routing. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1918-1929.	5.6	19
62	SLURM Support for Remote GPU Virtualization: Implementation and Performance Study. , 2014, , .		19
63	RECN-IQ: A Cost-Effective Input-Queued Switch Architecture with Congestion Management. , 2007, , .		18
64	Simple Deadlock-Free Dynamic Network Reconfiguration. Lecture Notes in Computer Science, 2004, , 504-515.	1.3	18
65	An architecture for high-performance scalable shared-memory multiprocessors exploiting on-chip integration. IEEE Transactions on Parallel and Distributed Systems, 2004, 15, 755-768.	5.6	17
66	Fast routing computation on InfiniBand networks. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 215-226.	5.6	16
67	Beyond Fat-tree: Unidirectional Load-Balanced Multistage Interconnection Network. IEEE Computer Architecture Letters, 2008, 7, 49-52.	1.5	16
68	Understanding Cache Hierarchy Contention in CMPs to Improve Job Scheduling. , 2012, , .		16
69	N-Dimensional Twin Torus Topology. IEEE Transactions on Computers, 2015, 64, 2847-2861.	3.4	16
70	Efficient TLB-Based Detection of Private Pages in Chip Multiprocessors. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 748-761.	5.6	16
71	BBQ: A Straightforward Queuing Scheme to Reduce HoL-Blocking in High-Performance Hybrid Networks. Lecture Notes in Computer Science, 2013, , 699-712.	1.3	16
72	A THEORY TO INCREASE THE EFFECTIVE REDUNDANCY IN WORMHOLE NETWORKS. Parallel Processing Letters, 1994, 04, 125-138.	0.6	15

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73	Congestion Management in MINs through Marked and Validated Packets. , 2007, , .		15
74	Power saving in regular interconnection networks. Parallel Computing, 2010, 36, 696-712.	2.1	15
75	OBQA: Smart and cost-efficient queue scheme for Head-of-Line blocking elimination in fat-trees. Journal of Parallel and Distributed Computing, 2011, 71, 1460-1472.	4.1	15
76	Temporal-Aware Mechanism to Detect Private Data in Chip Multiprocessors. , 2013, , .		15
77	Supporting adaptive routing in IBA switches. Journal of Systems Architecture, 2003, 49, 441-456.	4.3	14
78	A New Cost-Effective Technique for QoS Support in Clusters. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 1714-1726.	5.6	14
79	Bandwidth-Aware On-Line Scheduling in SMT Multicores. IEEE Transactions on Computers, 2016, 65, 422-434.	3.4	14
80	Improving the efficiency of virtual channels with time-dependent selection functions. Future Generation Computer Systems, 1994, 10, 45-58.	7.5	13
81	Design of Hybrid Second-Level Caches. IEEE Transactions on Computers, 2015, 64, 1884-1897.	3.4	13
82	On-chip interconnects and instruction steering schemes for clustered microarchitectures. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 130-144.	5.6	12
83	Addressing Fairness in SMT Multicores with a Progress-Aware Scheduler. , 2015, , .		12
84	Improving the user experience of the rCUDA remote GPU virtualization framework. Concurrency Computation Practice and Experience, 2015, 27, 3746-3770.	2.2	12
85	Accurately modeling the on-chip and off-chip GPU memory subsystem. Future Generation Computer Systems, 2018, 82, 510-519.	7.5	12
86	Combining Congested-Flow Isolation and Injection Throttling in HPC Interconnection Networks. , 2011, , .		11
87	A low-latency modular switch for CMP systems. Microprocessors and Microsystems, 2011, 35, 742-754.	2.8	11
88	A New Energy-Aware Dynamic Task Set Partitioning Algorithm for Soft and Hard Embedded Real-Time Systems. Computer Journal, 2011, 54, 1282-1294.	2.4	11
89	Design, Performance, and Energy Consumption of eDRAM/SRAM Macrocells for L1 Data Caches. IEEE Transactions on Computers, 2012, 61, 1231-1242.	3.4	11
90	The k-ary n-direct s-indirect family of topologies for large-scale interconnection networks. Journal of Supercomputing, 2016, 72, 1035-1062.	3.6	11

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91	An Efficient Strategy for Reducing Head-of-Line Blocking in Fat-Trees. Lecture Notes in Computer Science, 2010, , 413-427.	1.3	11
92	On the use of virtual channels in networks of workstations with irregular topology. IEEE Transactions on Parallel and Distributed Systems, 2000, 11, 813-828.	5.6	10
93	An Effective Starvation Avoidance Mechanism to Enhance the Token Coherence Protocol. Parallel, Distributed and Network-based Processing, Proceedings of the Euromicro Workshop on, 2007, , .	0.0	10
94	PS-Dir. , 2012, , .		10
95	Achieving balanced buffer utilization with a proper co-design of flow control and routing algorithm. , 2014, , .		10
96	Building 3D Torus Using Low-Profile Expansion Cards. IEEE Transactions on Computers, 2014, 63, 2701-2715.	3.4	10
97	Theoretical Scalability Analysis of Distributed Deep Convolutional Neural Networks. , 2019, , .		10
98	DCFNoC. , 2019, , .		10
99	On the Influence of the Packet Marking and Injection Control Schemes in Congestion Management for MINs. Lecture Notes in Computer Science, 2008, , 930-939.	1.3	10
100	FBICM: Efficient Congestion Management for High-Performance Networks Using Distributed Deterministic Routing. Lecture Notes in Computer Science, 2008, , 503-517.	1.3	10
101	Deadlock-free dynamic reconfiguration over InfiniBandâ„¢ NETWORKS. International Journal of Parallel, Emergent and Distributed Systems, 2004, 19, 127-143.	0.4	9
102	High-radix crossbar switches enabled by Proximity Communication. , 2008, , .		9
103	A new mechanism to deal with process variability in NoC links. , 2009, , .		9
104	Efficient and Scalable Hardware-Based Multicast in Fat-Tree Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1285-1298.	5.6	9
105	EMC ² : Extending Magny-Cours coherence for large-scale servers. , 2010, , .		9
106	A parallel and sensitive software tool for methylation analysis on multicore platforms. Bioinformatics, 2015, 31, 3130-3138.	4.1	9
107	Ensuring the performance and scalability of peer-to-peer distributed virtual environments. Future Generation Computer Systems, 2010, 26, 905-915.	7.5	8
108	Combining recency of information with selective random and a victim cache in last-level caches. Transactions on Architecture and Code Optimization, 2012, 9, 1-20.	2.0	8

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109	A New Family of Hybrid Topologies for Large-Scale Interconnection Networks. , 2012, , .		8
110	Silicon-aware distributed switch architecture for on-chip networks. Journal of Systems Architecture, 2013, 59, 505-515.	4.3	8
111	Obtaining the optimal configuration of high-radix Combined switches. Journal of Parallel and Distributed Computing, 2013, 73, 1239-1250.	4.1	8
112	A dynamic execution time estimation model to save energy in heterogeneous multicores running periodic tasks. Future Generation Computer Systems, 2016, 56, 211-219.	7.5	8
113	A Family of Fault-Tolerant Efficient Indirect Topologies. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 927-940.	5.6	8
114	Analysis of model parallelism for distributed neural networks. , 2019, , .		8
115	Accelerating distributed deep neural network training with pipelined MPI allreduce. Cluster Computing, 2021, 24, 3797-3813.	5.0	8
116	Exploiting SIMD Instructions in Current Processors to Improve Classical String Algorithms. Lecture Notes in Computer Science, 2012, , 254-267.	1.3	8
117	Dynamic Fault Tolerance with Misrouting in Fat Trees. , 0, , .		7
118	A performance evaluation of 2D-mesh, ring, and crossbar interconnects for chip multi-processors. , 2009, , .		7
119	A Scalable and Early Congestion Management Mechanism for MINs. , 2010, , .		7
120	MEMSCALE™: A Scalable Environment for Databases. , 2011, , .		7
121	Fault-Tolerant Vertical Link Design for Effective 3D Stacking. IEEE Computer Architecture Letters, 2011, 10, 41-44.	1.5	7
122	Characterizing the impact of process variation on 45 nm NoC-based CMPs. Journal of Parallel and Distributed Computing, 2011, 71, 651-663.	4.1	7
123	TLB-Based Temporality-Aware Classification in CMPs with Multilevel TLBs. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2401-2413.	5.6	7
124	Enforcing in-order packet delivery in system area networks with adaptive routing. Journal of Parallel and Distributed Computing, 2005, 65, 1223-1236.	4.1	6
125	Handling Topology Changes in InfiniBand. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 172-185.	5.6	6
126	A proposal for managing ASI fabrics. Journal of Systems Architecture, 2008, 54, 664-678.	4.3	6

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127	Efficient Deadline-Based QoS Algorithms for High-Performance Networks. IEEE Transactions on Computers, 2008, 57, 928-939.	3.4	6
128	A fault-tolerant directory-based cache coherence protocol for CMP architectures. , 2008, , .		6
129	A practical way to extend shared memory support beyond a motherboard at low cost. , 2010, , .		6
130	A Latency-Efficient Router Architecture for CMP Systems. , 2010, , .		6
131	Enabling High-Performance Crossbars through a Floorplan-Aware Design. , 2012, , .		6
132	A new degree of freedom for memory allocation in clusters. Cluster Computing, 2012, 15, 101-123.	5.0	6
133	TokenTLB. , 2016, , .		6
134	Traffic scheduling solutions with QoS support for an input-buffered multimedia router. IEEE Transactions on Parallel and Distributed Systems, 2005, 16, 1009-1021.	5.6	5
135	A Switch Architecture Guaranteeing QoS Provision and HOL Blocking Elimination. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 13-24.	5.6	5
136	Getting Rid of Coherency Overhead for Memory-Hungry Applications. , 2010, , .		5
137	C-Switches: Increasing Switch Radix with Current Integration Scale. , 2011, , .		5
138	A reuse-based refresh policy for energy-aware eDRAM caches. Microprocessors and Microsystems, 2015, 39, 37-48.	2.8	5
139	Enforcing Predictability of Many-Cores With DCFNoC. IEEE Transactions on Computers, 2021, 70, 270-283.	3.4	5
140	A Dynamic Power-Aware Partitioner with Task Migration for Multicore Embedded Systems. Lecture Notes in Computer Science, 2011, , 218-229.	1.3	5
141	Dynamic Reconfiguration in High Speed Local Area Networks. , 2000, , 207-231.		5
142	CHANNEL CLASSES: A NEW CONCEPT FOR DEADLOCK AVOIDANCE IN WORMHOLE NETWORKS. Parallel Processing Letters, 1992, 02, 347-354.	0.6	4
143	Configurable flow control mechanisms for fault-tolerant routing. Computer Architecture News, 1995, 23, 220-229.	2.5	4
144	A tool for the analysis of reconfiguration and routing algorithms in irregular networks. Lecture Notes in Computer Science, 1998, , 159-173.	1.3	4

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145	A Formal Model to Manage the InfiniBand Arbitration Tables Providing QoS. IEEE Transactions on Computers, 2007, 56, 1024-1039.	3.4	4
146	CART: Communication-Aware Routing Technique for Application-Specific NoCs. , 2008, , .		4
147	M-GRASP: A GRASP With Memory for Latency-Aware Partitioning Methods in DVE Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1214-1223.	2.9	4
148	VCT<inf>lite</inf>; Towards an efficient implementation of virtual cut-through switching in on-chip networks. , 2010, , .		4
149	Efficient routing implementation in complex systems-on-chip designs. , 2011, , .		4
150	How to reduce packet dropping in a bufferless NoC. Concurrency Computation Practice and Experience, 2011, 23, 86-99.	2.2	4
151	Cache Miss Characterization in Hierarchical Large-Scale Cache-Coherent Systems. , 2012, , .		4
152	Impact on Performance and Energy of the Retention Time and Processor Frequency in L1 Macrocell-Based Data Caches. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2012, 20, 1108-1117.	3.1	4
153	Progressive Congestion Management Based on Packet Marking and Validation Techniques. IEEE Transactions on Computers, 2012, 61, 1296-1310.	3.4	4
154	On the Impact of Within-Die Process Variation in GALS-Based NoC Performance. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 294-307.	2.7	4
155	A cost-effective heuristic to schedule local and remote memory in cluster computers. Journal of Supercomputing, 2012, 59, 1533-1551.	3.6	4
156	Combining HoL-blocking avoidance and differentiated services in high-speed interconnects. , 2014, , .		4
157	Feasible enhancements to congestion control in InfiniBand-based networks. Journal of Parallel and Distributed Computing, 2018, 112, 35-52.	4.1	4
158	Deadlock-Free Routing in Irregular Networks with Dynamic Reconfiguration. Lecture Notes in Computer Science, 1999, , 165-180.	1.3	4
159	Boosting the performance of Myrinet networks. IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 1166-1182.	5.6	3
160	Applying in-transit buffers to boost the performance of networks with source routing. IEEE Transactions on Computers, 2003, 52, 1134-1153.	3.4	3
161	A genetic approach for adding QoS to distributed virtual environments. Computer Communications, 2007, 30, 731-739.	5.1	3
162	Switch-Based Packing Technique for Improving Token Coherence Scalability. , 2008, , .		3

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163	Dealing with Transient Faults in the Interconnection Network of CMPs at the Cache Coherence Level. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1117-1131.	5.6	3
164	Towards an Efficient NoC Topology through Multiple Injection Ports. , 2011, , .		3
165	Evaluation of an Alternative for Increasing Switch Radix. , 2011, , .		3
166	A Communication-Driven Routing Technique for Application-Specific NoCs. International Journal of Parallel Programming, 2011, 39, 357-374.	1.5	3
167	MEMSCALE. , 2011, , .		3
168	Analyzing the optimal ratio of SRAM banks in hybrid caches. , 2012, , .		3
169	Combining RAM Technologies for Hard-error Recovery in L1 Data Caches Working at Very-low Power Modes. , 2013, , .		3
170	Accurately modeling the GPU memory subsystem. , 2015, , .		3
171	Optimizing Packet Dropping by Efficient Congesting-Flow Isolation in Lossy Data-Center Networks. , 2020, , .		3
172	Performance Modeling for Distributed Training of Convolutional Neural Networks. , 2021, , .		3
173	A cost-effective methodology for the evaluation of interconnection networks. Journal of Systems Architecture, 1998, 44, 815-830.	4.3	2
174	FIR: An efficient routing strategy for tori and meshes. Journal of Parallel and Distributed Computing, 2006, 66, 907-921.	4.1	2
175	Scalable hardware support for conditional parallelization. , 2010, , .		2
176	A Scheduling Heuristic to Handle Local and Remote Memory in Cluster Computers. , 2010, , .		2
177	A Distributed Switch Architecture for On-Chip Networks. , 2011, , .		2
178	Highly scalable barriers for future high-performance computing clusters. , 2011, , .		2
179	Efficient and Scalable Starvation Prevention Mechanism for Token Coherence. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1610-1623.	5.6	2
180	Unleash Your Memory-Constrained Applications: A 32-Node Non-coherent Distributed-Memory Prototype Cluster. , 2011, , .		2

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181	A New End-to-End Flow-Control Mechanism for High Performance Computing Clusters. , 2012, , .		2
182	Extending Magny-Cours Cache Coherence. IEEE Transactions on Computers, 2012, 61, 593-606.	3.4	2
183	An empirical model for predicting cross-core performance interference on multicore processors. , 2013, , .		2
184	Exploiting reuse information to reduce refresh energy in on-chip eDRAM caches. , 2013, , .		2
185	Addressing bandwidth contention in SMT multicores through scheduling. , 2014, , .		2
186	Dynamic WCET Estimation for Real-Time Multicore Embedded Systems Supporting DVFS. , 2014, , .		2
187	Formalization and configuration methodology for high-radix combined switches. Journal of Supercomputing, 2014, 69, 1410-1444.	3.6	2
188	A HoL-blocking aware mechanism for selecting the upward path in fat-tree topologies. Journal of Supercomputing, 2015, 71, 2339-2364.	3.6	2
189	Efficient Dynamic Isolation of Congestion in Lossless DataCenter Networks. , 2019, , .		2
190	Path2SL: Optimizing Head-of-Line Blocking Reduction in InfiniBand-Based Fat-Tree Networks. , 2019, , .		2
191	Evaluation of MPI Allreduce for Distributed Training of Convolutional Neural Networks. , 2021, , .		2
192	Design of an ICT Tool for Decision Making in Social and Health Policies. , 2013, , 802-819.		2
193	Analyzing the impact of the MPI allreduce in distributed training of convolutional neural networks. Computing (Vienna/New York), 2023, 105, 1101-1119.	4.8	2
194	ON THE DESIGN OF DEADLOCK-FREE ADAPTIVE MULTICAST ROUTING ALGORITHMS. Parallel Processing Letters, 1993, 03, 321-333.	0.6	1
195	SUBOPTIMAL-OPTIMAL ROUTING FOR LAN INTERNETWORKING USING TRANSPARENT BRIDGES. International Journal of Foundations of Computer Science, 1998, 09, 139-156.	1.1	1
196	Deadline-based QoS Algorithms for High-performance Networks. , 2007, , .		1
197	Extending the TokenCMP Cache Coherence Protocol for Low Overhead Fault Tolerance in CMP Architectures. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1044-1056.	5.6	1
198	Network Reconfiguration Suitability for Scientific Applications. , 2008, , .		1

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199	An Efficient Low-Complexity Alternative to the ROB for Out-of-Order Retirement of Instructions. , 2009, , .		1
200	Balancing Task Resource Requirements in Embedded Multithreaded Multicore Processors to Reduce Power Consumption. , 2010, , .		1
201	MRU-Tour-based Replacement Algorithms for Last-Level Caches. , 2011, , .		1
202	Improving Last-Level Cache Performance by Exploiting the Concept of MRU-Tour. , 2011, , .		1
203	Optimal Configuration of High-Radix Combined Switches. , 2012, , .		1
204	Page-Based Memory Allocation Policies of Local and Remote Memory in Cluster Computers. , 2012, , .		1
205	Deterministic Routing with HoL-Blocking-Awareness for Direct Topologies. Procedia Computer Science, 2013, 18, 2521-2524.	2.0	1
206	Using Huge Pages and Performance Counters to Determine the LLC Architecture. Procedia Computer Science, 2013, 18, 2557-2560.	2.0	1
207	On the design of a new dynamic credit-based end-to-end flow control mechanism for HPC clusters. Parallel Computing, 2015, 46, 32-59.	2.1	1
208	Adaptive routing for n-Dimensional Twin torus. IEEE Transactions on Computers, 2016, , 1-1.	3.4	1
209	A Case Study on Implementing Virtual 5D Torus Networks Using Network Components of Lower Dimensionality. , 2017, , .		1
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