

Manuel E E Acacio

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the Interactions Between ILP and TLP With Hardware Transactional Memory. , 2022, , .		0
2	DeTraS: Delaying Stores for Friendly-Fire Mitigation in Hardware Transactional Memory. IEEE Transactions on Parallel and Distributed Systems, 2021, , 1-1.	5.6	1
3	STONNE: Enabling Cycle-Level Microarchitectural Simulation for DNN Inference Accelerators. IEEE Computer Architecture Letters, 2021, 20, 122-125.	1.5	9
4	A novel network fabric for efficient spatio-temporal reduction in flexible DNN accelerators. , 2021, , .		2
5	ITSLF: Inter-Thread Store-to-Load Forwarding in Simultaneous Multithreading. , 2021, , .		1
6	PfTouch: Concurrent page-fault handling for Intel restricted transactional memory. Journal of Parallel and Distributed Computing, 2020, 145, 111-123.	4.1	2
7	Concurrent Irrevocability in Best-Effort Hardware Transactional Memory. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1301-1315.	5.6	2
8	Way Combination for an Adaptive and Scalable Coherence Directory. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2608-2623.	5.6	2
9	InsideNet: A tool for characterizing convolutional neural networks. Future Generation Computer Systems, 2019, 100, 298-315.	7.5	3
10	Foreword to the Special Issue on Processors, Interconnects, Storage, and Caches for Exascale Systems. Concurrency Computation Practice and Experience, 2019, 31, e5408.	2.2	0
11	Parallel implementations of the 3D fast wavelet transform on a Raspberry Pi 2 cluster. Journal of Supercomputing, 2018, 74, 1765-1778.	3.6	7
12	Photonic-based express coherence notifications for many-core CMPs. Journal of Parallel and Distributed Computing, 2018, 113, 179-194.	4.1	4
13	On the Parallelization of Stream Compaction on a Low-Cost SDC Cluster. Scientific Programming, 2018, 2018, 1-10.	0.7	1
14	SAWS: Simple and Adaptive Warp Scheduling for Improved Performance in Throughput Processors. , 2018, , .		1
15	A dedicated privateâ€œshared cache design for scalable multiprocessors. Concurrency Computation Practice and Experience, 2017, 29, e3871.	2.2	1
16	To be silent or not: on the impact of evictions of clean data in cache-coherent multicores. Journal of Supercomputing, 2017, 73, 4428-4443.	3.6	5
17	Way-combining directory. , 2017, , .		4
18	Optimization of a Linked Cache Coherence Protocol for Scalable Manycore Coherence. Lecture Notes in Computer Science, 2016, , 100-112.	1.3	1

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19	Are distributed sharing codes a solution to the scalability problem of coherence directories in manycores? An evaluation study. Journal of Supercomputing, 2016, 72, 612-638.	3.6	3
20	Early Experiences with Separate Caches for Private and Shared Data. , 2015, , .		3
21	DASC-DIR: a low-overhead coherence directory for many-core processors. Journal of Supercomputing, 2015, 71, 781-807.	3.6	2
22	Fast and efficient commits for Lazy-Lazy hardware transactional memory. Journal of Supercomputing, 2015, 71, 4305-4326.	3.6	0
23	Hardware Approaches to Transactional Memory in Chip Multiprocessors. , 2015, , 805-835.		0
24	Efficient Hardware-Supported Synchronization Mechanisms for Manycores. , 2015, , 753-803.		1
25	Adaptive Selection of Cache Indexing Bits for Removing Conflict Misses. IEEE Transactions on Computers, 2014, , 1-1.	3.4	3
26	Selective dynamic serialization for reducing energy consumption in hardware transactional memory systems. Journal of Supercomputing, 2014, 68, 914-934.	3.6	5
27	ZEBRA: Data-Centric Contention Management in Hardware Transactional Memory. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1359-1369.	5.6	3
28	Characterization of a List-Based Directory Cache Coherence Protocol for Manycore CMPs. Lecture Notes in Computer Science, 2014, , 254-265.	1.3	2
29	On the design of energy-efficient hardware transactional memory systems. Concurrency Computation Practice and Experience, 2013, 25, 862-880.	2.2	6
30	Deploying Hardware Locks to Improve Performance and Energy Efficiency of Hardware Transactional Memory. Lecture Notes in Computer Science, 2013, , 220-231.	1.3	1
31	Design of an efficient communication infrastructure for highly contended locks in many-core CMPs. Journal of Parallel and Distributed Computing, 2013, 73, 972-985.	4.1	1
32	Efficient Eager Management of Conflicts for Scalable Hardware Transactional Memory. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 59-71.	5.6	1
33	ECONO: Express coherence notifications for efficient cache coherency in many-core CMPs. , 2013, , .		2
34	Efficient DirOB Cache Coherency for Many-core CMPs. Procedia Computer Science, 2013, 18, 2545-2548.	2.0	0
35	Eager Beats Lazy: Improving Store Management in Eager Hardware Transactional Memory. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 2192-2201.	5.6	7
36	Towards Efficient Dynamic LLC Home Bank Mapping with NoC-Level Support. Lecture Notes in Computer Science, 2013, , 178-190.	1.3	0

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37	Hardware transactional memory with software-defined conflicts. Transactions on Architecture and Code Optimization, 2012, 8, 1-20.	2.0	3
38	ASCIB. , 2012, , .		14
39	Stencil computations on heterogeneous platforms for the Jacobi method: GPUs versus Cell BE. Journal of Supercomputing, 2012, 62, 787-803.	3.6	7
40	Efficient Hardware Barrier Synchronization in Many-Core CMPs. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1453-1466.	5.6	21
41	Dynamic Serialization: Improving Energy Consumption in Eager-Eager Hardware Transactional Memory Systems. , 2012, , .		3
42	Using Heterogeneous Networks to Improve Energy Efficiency in Direct Coherence Protocols for Many-Core CMPs. , 2012, , .		0
43	π-TM: Pessimistic invalidation for scalable lazy hardware transactional memory. , 2012, , .		14
44	Heterogeneous NoC Design for Efficient Broadcast-based Coherence Protocol Support. , 2012, , .		23
45	Design of a collective communication infrastructure for barrier synchronization in cluster-based nanoscale MPSoCs. , 2012, , .		3
46	An Experience of Early Initiation to Parallelism in the Computing Engineering Degree at the University of Murcia, Spain. , 2012, , .		2
47	Extending Magny-Cours Cache Coherence. IEEE Transactions on Computers, 2012, 61, 593-606.	3.4	2
48	GLocks: Efficient Support for Highly-Contented Locks in Many-Core CMPs. , 2011, , .		23
49	ZEBRA. , 2011, , .		16
50	Eager Meets Lazy: The Impact of Write-Buffering on Hardware Transactional Memory. , 2011, , .		6
51	Pi-TM: Pessimistic Invalidation for Scalable Lazy Hardware Transactional Memory. , 2011, , .		3
52	The Impact of Non-coherent Buffers on Lazy Hardware Transactional Memory Systems. , 2011, , .		1
53	Characterizing the basic synchronization and communication operations in Dual Cell-based Blades through CellStats. Journal of Supercomputing, 2010, 53, 247-268.	3.6	0
54	A scalable organization for distributed directories. Journal of Systems Architecture, 2010, 56, 77-87.	4.3	13

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55	Exploiting address compression and heterogeneous interconnects for efficient message management in tiled CMPs. <i>Journal of Systems Architecture</i> , 2010, 56, 429-441.	4.3	0
56	Efficient and scalable barrier synchronization for many-core CMPs. , 2010, , .		9
57	EMC ² : Extending Magny-Cours coherence for large-scale servers. , 2010, , .		9
58	Heterogeneous Interconnects for Energy-Efficient Message Management in CMPs. <i>IEEE Transactions on Computers</i> , 2010, 59, 16-28.	3.4	26
59	Energy-Efficient Hardware Prefetching for CMPs Using Heterogeneous Interconnects. , 2010, , .		3
60	A Direct Coherence Protocol for Many-Core Chip Multiprocessors. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010, 21, 1779-1792.	5.6	32
61	A G-Line-Based Network for Fast and Efficient Barrier Synchronization in Many-Core CMPs. , 2010, , .		12
62	Dealing with Transient Faults in the Interconnection Network of CMPs at the Cache Coherence Level. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2010, 21, 1117-1131.	5.6	3
63	Characterizing Energy Consumption in Hardware Transactional Memory Systems. , 2010, , .		13
64	Speculation-based conflict resolution in hardware transactional memory. , 2009, , .		11
65	A Parallel Implementation of the 2D Wavelet Transform Using CUDA. , 2009, , .		62
66	Distance-aware round-robin mapping for large NUCA caches. , 2009, , .		9
67	Dealing with Traffic-Area Trade-Off in Direct Coherence Protocols for Many-Core CMPs. <i>Lecture Notes in Computer Science</i> , 2009, , 11-27.	1.3	6
68	Fast and Efficient Synchronization and Communication Collective Primitives for Dual Cell-Based Blades. <i>Lecture Notes in Computer Science</i> , 2009, , 900-911.	1.3	1
69	Two proposals for the inclusion of directory information in the last-level private caches of glueless shared-memory multiprocessors. <i>Journal of Parallel and Distributed Computing</i> , 2008, 68, 1413-1424.	4.1	0
70	An energy consumption characterization of on-chip interconnection networks for tiled CMP architectures. <i>Journal of Supercomputing</i> , 2008, 45, 341-364.	3.6	15
71	Extending the TokenCMP Cache Coherence Protocol for Low Overhead Fault Tolerance in CMP Architectures. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2008, 19, 1044-1056.	5.6	1
72	A fault-tolerant directory-based cache coherence protocol for CMP architectures. , 2008, , .		6

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73	CellStats: A Tool to Evaluate the Basic Synchronization and Communication Operations of the Cell BE. , 2008, , .		5
74	Characterization of Conflicts in Log-Based Transactional Memory (LogTM). , 2008, , .		8
75	Address Compression and Heterogeneous Interconnects for Energy-Efficient High-Performance in Tiled CMPs. , 2008, , .		2
76	DiCo-CMP: Efficient cache coherency in tiled CMP architectures. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	25
77	Characterizing the Basic Synchronization and Communication Operations in Dual Cell-Based Blades. Lecture Notes in Computer Science, 2008, , 456-465.	1.3	3
78	Directory-Based Conflict Detection in Hardware Transactional Memory. Lecture Notes in Computer Science, 2008, , 541-554.	1.3	3
79	Fault-Tolerant Cache Coherence Protocols for CMPs: Evaluation and Trade-Offs. Lecture Notes in Computer Science, 2008, , 555-568.	1.3	1
80	Sim-PowerCMP: A Detailed Simulator for Energy Consumption Analysis in Future Embedded CMP Architectures. , 2007, , .		14
81	A Low Overhead Fault Tolerant Coherence Protocol for CMP Architectures. , 2007, , .		24
82	An efficient implementation of a 3D wavelet transform based encoder on hyper-threading technology. Parallel Computing, 2007, 33, 54-72.	2.1	6
83	Direct Coherence: Bringing Together Performance and Scalability in Shared-Memory Multiprocessors. , 2007, , 147-160.		6
84	Efficient Message Management in Tiled CMP Architectures Using a Heterogeneous Interconnection Network. , 2007, , 133-146.		6
85	On the Evaluation of Dense Chip-Multiprocessor Architectures. , 2006, , .		1
86	An efficient cache design for scalable glueless shared-memory multiprocessors. , 2006, , .		8
87	Evaluating IA-32 web servers through simics: a practical experience. Journal of Systems Architecture, 2005, 51, 251-264.	4.3	4
88	A Novel Lightweight Directory Architecture for Scalable Shared-Memory Multiprocessors. Lecture Notes in Computer Science, 2005, , 582-591.	1.3	10
89	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
90	Memory Subsystem Characterization in a 16-Core Snoop-Based Chip-Multiprocessor Architecture. Lecture Notes in Computer Science, 2005, , 213-222.	1.3	3

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91	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
92	On the Evaluation of x86 Web Servers Using Simics: Limitations and Trade-Offs. Lecture Notes in Computer Science, 2004, , 541-544.	1.3	1
93	MPIâ€™Delphi: an MPI implementation for visual programming environments and heterogeneous computing. Future Generation Computer Systems, 2002, 18, 317-333.	7.5	5
94	P-EDR: An algorithm for parallel implementation of Parzen density estimation from uncertain observations. , 0, , .		1
95	A new scalable directory architecture for large-scale multiprocessors. , 0, , .		30
96	The use of prediction for accelerating upgrade misses in cc-NUMA multiprocessors. , 0, , .		14
97	Reducing the latency of L2 misses in shared-memory multiprocessors through on-chip directory integration. , 0, , .		0
98	Optimizing a 3D-FWT Video Encoder for SMPs and HyperThreading Architectures. , 0, , .		2
99	Analysing software prefetching opportunities in hardware transactional memory. Journal of Supercomputing, 0, , 1.	3.6	0