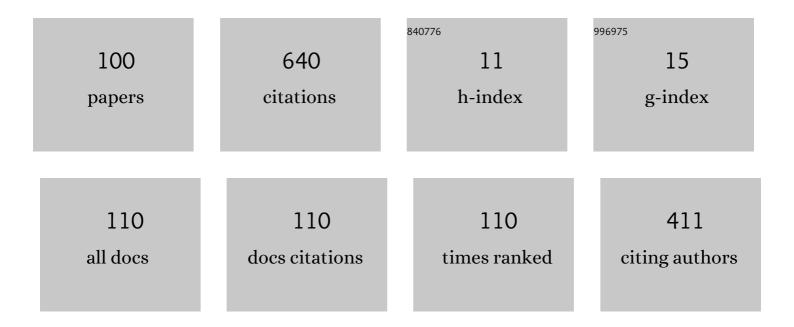
Salvador Petit

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Multi2Sim: A Simulation Framework to Evaluate Multicore-Multithreaded Processors. , 2007, , .		129
2	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
3	Exploiting temporal locality in drowsy cache policies. , 2005, , .		34
4	Application Clustering Policies to Address System Fairness with Intel's Cache Allocation Technology. , 2017, , .		23
5	Cache-Hierarchy Contention-Aware Scheduling in CMPs. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 581-590.	5.6	21
6	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
7	An hybrid eDRAM/SRAM macrocell to implement first-level data caches. , 2009, , .		20
8	Powerâ€aware scheduling with effective task migration for realâ€ŧime multicore embedded systems. Concurrency Computation Practice and Experience, 2013, 25, 1987-2001.	2.2	19
9	Understanding Cache Hierarchy Contention in CMPs to Improve Job Scheduling. , 2012, , .		16
10	Bandwidth-Aware On-Line Scheduling in SMT Multicores. IEEE Transactions on Computers, 2016, 65, 422-434.	3.4	14
11	Design of Hybrid Second-Level Caches. IEEE Transactions on Computers, 2015, 64, 1884-1897.	3.4	13
12	A Complexity-Effective Out-of-Order Retirement Microarchitecture. IEEE Transactions on Computers, 2009, 58, 1626-1639.	3.4	12
13	Addressing Fairness in SMT Multicores with a Progress-Aware Scheduler. , 2015, , .		12
14	Accurately modeling the on-chip and off-chip GPU memory subsystem. Future Generation Computer Systems, 2018, 82, 510-519.	7.5	12
15	Phase-Aware Cache Partitioning to Target Both Turnaround Time and System Performance. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2556-2568.	5.6	12
16	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
17	Design, Performance, and Energy Consumption of eDRAM/SRAM Macrocells for L1 Data Caches. IEEE Transactions on Computers, 2012, 61, 1231-1242.	3.4	11
18	Symbiotic job scheduling on the IBM POWER8. , 2016, , .		11

Symbiotic job scheduling on the IBM POWER8. , 2016, , . 18

#	Article	IF	CITATIONS
19	On Microarchitectural Mechanisms for Cache Wearout Reduction. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 857-871.	3.1	11
20	Spim-Cache: A Pedagogical Tool for Teaching Cache Memories Through Code-Based Exercises. IEEE Transactions on Education, 2007, 50, 244-250.	2.4	9
21	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
22	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
23	Improving System Turnaround Time with Intel CAT by Identifying LLC Critical Applications. Lecture Notes in Computer Science, 2018, , 603-615.	1.3	8
24	LIDE. Computer Architecture News, 2000, 28, 11-18.	2.5	8
25	Leakage Current Reduction in Data Caches on Embedded Systems. , 2007, , .		7
26	A Hardware Approach to Fairly Balance the Inter-Thread Interference in Shared Caches. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3021-3032.	5.6	7
27	Efficient Register Renaming and Recovery for High-Performance Processors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2014, 22, 1506-1514.	3.1	6
28	A research-oriented course on Advanced Multicore Architecture: Contents and active learning methodologies. Journal of Parallel and Distributed Computing, 2017, 105, 63-72.	4.1	6
29	An Aging-Aware GPU Register File Design Based on Data Redundancy. IEEE Transactions on Computers, 2019, 68, 4-20.	3.4	6
30	Bandwidth-Aware Dynamic Prefetch Configuration for IBM POWER8. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 1970-1982.	5.6	6
31	A reuse-based refresh policy for energy-aware eDRAM caches. Microprocessors and Microsystems, 2015, 39, 37-48.	2.8	5
32	A Dynamic Power-Aware Partitioner with Task Migration for Multicore Embedded Systems. Lecture Notes in Computer Science, 2011, , 218-229.	1.3	5
33	Characterizing parallel workloads to reduce multiple writer overhead in shared virtual memory systems. , 0, , .		4
34	An execution-driven simulation tool for teaching cache memories in introductory computer organization courses. , 2006, , .		4
35	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
36	A cost-effective heuristic to schedule local and remote memory in cluster computers. Journal of Supercomputing, 2012, 59, 1533-1551.	3.6	4

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37	Improving IBM POWER8 Performance Through Symbiotic Job Scheduling. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2838-2851.	5.6	4
38	Thread Isolation to Improve Symbiotic Scheduling on SMT Multicore Processors. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 359-373.	5.6	4
39	Effect of Hyper-Threading in Latency-Critical Multithreaded Cloud Applications and Utilization Analysis of the Major System Resources. Future Generation Computer Systems, 2022, 131, 194-208.	7.5	4
40	<tex>\$hbox RAC_rm FP\$</tex> : A Training Tool to Work With Floating-Point Representation, Algorithms, and Circuits in Undergraduate Courses. IEEE Transactions on Education, 2006, 49, 321-331.	2.4	3
41	The impact of out-of-order commit in coarse-grain, fine-grain and simultaneous multithreaded architectures. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	3
42	Analyzing the optimal ratio of SRAM banks in hybrid caches. , 2012, , .		3
43	Combining RAM Technologies for Hard-error Recovery in L1 Data Caches Working at Very-low Power Modes. , 2013, , .		3
44	Accurately modeling the GPU memory subsystem. , 2015, , .		3
45	Accurately modeling a photonic NoC in a detailed CMP simulation framework. , 2016, , .		3
46	Modeling and analysis of the performance of exascale photonic networks. Concurrency Computation Practice and Experience, 2019, 31, e4773.	2.2	3
47	Impact of the Array Shape and Memory Bandwidth on the Execution Time of CNN Systolic Arrays. , 2020, , .		3
48	Reducing the Number of Bits in the BTB to Attack the Branch Predictor Hot-Spot. Lecture Notes in Computer Science, 2008, , 317-326.	1.3	3
49	About the sensitivity of the HLRC-DU protocol on diff and page sizes. , 0, , .		2
50	Exploring the performance of split data cache schemes on superscalar processors and symmetric multiprocessors. Journal of Systems Architecture, 2005, 51, 451-469.	4.3	2
51	Applying the zeros switch-off technique to reduce static energy in data caches. Proceedings Symposium on Computer Architecture and High Performance Computing, 2006, , .	0.0	2
52	A power-aware hybrid RAM-CAM renaming mechanism for fast recovery. , 2009, , .		2
53	A Scheduling Heuristic to Handle Local and Remote Memory in Cluster Computers. , 2010, , .		2
54	An empirical model for predicting cross-core performance interference on multicore processors. , 2013, , .		2

#	Article	IF	CITATIONS
55	Exploiting reuse information to reduce refresh energy in on-chip eDRAM caches. , 2013, , .		2
56	Addressing bandwidth contention in SMT multicores through scheduling. , 2014, , .		2
57	Dynamic WCET Estimation for Real-Time Multicore Embedded Systems Supporting DVFS. , 2014, , .		2
58	Enhancing the L1 Data Cache Design to Mitigate HCI. IEEE Computer Architecture Letters, 2016, 15, 93-96.	1.5	2
59	Modeling a Photonic Network for Exascale Computing. , 2017, , .		2
60	Improving GPU Cache Hierarchy Performance with a Fetch and Replacement Cache. Lecture Notes in Computer Science, 2018, , 235-248.	1.3	2
61	Way Combination for an Adaptive and Scalable Coherence Directory. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2608-2623.	5.6	2
62	Characterizing the Dynamic Behavior of Workload Execution in SVM systems. , 0, , .		1
63	An Efficient Low-Complexity Alternative to the ROB for Out-of-Order Retirement of Instructions. , 2009, , .		1
64	Balancing Task Resource Requirements in Embedded Multithreaded Multicore Processors to Reduce Power Consumption. , 2010, , .		1
65	MRU-Tour-based Replacement Algorithms for Last-Level Caches. , 2011, , .		1
66	Improving Last-Level Cache Performance by Exploiting the Concept of MRU-Tour. , 2011, , .		1
67	A Sequentially Consistent Multiprocessor Architecture for Out-of-Order Retirement of Instructions. IEEE Transactions on Parallel and Distributed Systems, 2012, 23, 1361-1368.	5.6	1
68	Page-Based Memory Allocation Policies of Local and Remote Memory in Cluster Computers. , 2012, , .		1
69	Using Huge Pages and Performance Counters to Determine the LLC Architecture. Procedia Computer Science, 2013, 18, 2557-2560.	2.0	1
70	Analyzing the Optimal Voltage/Frequency Pair in Fault-Tolerant Caches. , 2014, , .		1
71	Euro-Par 2014: Parallel Processing Workshops. Lecture Notes in Computer Science, 2014, , .	1.3	1
72	A Research-Oriented Course on Advanced Multicore Architecture. , 2015, , .		1

A Research-Oriented Course on Advanced Multicore Architecture. , 2015, , . 72

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#	Article	IF	CITATIONS
73	Exploiting Data Compression to Mitigate Aging in GPU Register Files. , 2017, , .		1
74	Designing lab sessions focusing on real processors for computer architecture courses: A practical perspective. Journal of Parallel and Distributed Computing, 2018, 118, 128-139.	4.1	1
75	Workload Characterization for Exascale Computing Networks. , 2018, , .		1
76	Segment Switching: A New Switching Strategy for Optical HPC Networks. IEEE Access, 2021, 9, 43095-43106.	4.2	1
77	Paired ROBs: A Cost-Effective Reorder Buffer Sharing Strategy for SMT Processors. Lecture Notes in Computer Science, 2009, , 309-320.	1.3	1
78	A Cluster Computer Performance Predictor for Memory Scheduling. Lecture Notes in Computer Science, 2011, , 353-362.	1.3	1
79	DeepP: Deep Learning Multi-Program Prefetch Configuration for the IBM POWER 8. IEEE Transactions on Computers, 2022, 71, 2646-2658.	3.4	1
80	A Comparison Study of the HLRC-DU Protocol versus a HLRC Hardware Assisted Protocol. , 0, , .		0
81	Addressing a workload characterization study to the design of consistency protocols. Journal of Supercomputing, 2006, 38, 49-72.	3.6	0
82	Impacts of Multiprocessor Configurations on Workloads in Bioinformatics. , 2007, , .		0
83	Dynamic task set partitioning based on balancing memory requirements to reduce power consumption. , 2009, , .		Ο
84	Power Reduction In Advanced Embedded IPC Processors. Intelligent Automation and Soft Computing, 2009, 15, 495-507.	2.1	0
85	Dynamic task set partitioning based on balancing resource requirements and utilization to reduce power consumption. , 2010, , .		Ο
86	Exploiting subtrace-level parallelism in clustered processors. , 2010, , .		0
87	Out-of-order retirement of instructions in sequentially consistent multiprocessors. , 2010, , .		Ο
88	Efficiently Handling Memory Accesses to Improve QoS in Multicore Systems under Real-Time Constraints. , 2012, , .		0
89	Hardware-based generation of independent subtraces of instructions in clustered processors. IEEE Transactions on Computers, 2013, 62, 944-955.	3.4	0
90	Using peer-assessed returnables in multiple stages to improve learning in computer organization courses. , 2014, , .		0

#	Article	IF	CITATIONS
91	Current challenges in simulations of HPC systems. , 2015, , .		0
92	Student Research Poster. , 2016, , .		0
93	Impact of Memory-Level Parallelism on the Performance of GPU Coherence Protocols. , 2016, , .		0
94	A Workload Generator for Evaluating SMT Real-Time Systems. , 2018, , .		0
95	Efficient Management of Cache Accesses to Boost GPGPU Memory Subsystem Performance. IEEE Transactions on Computers, 2019, 68, 1442-1454.	3.4	0
96	FOS: a low-power cache organization for multicores. Journal of Supercomputing, 2019, 75, 6542-6573.	3.6	0
97	An efficient cache flat storage organization for multithreaded workloads for low power processors. Future Generation Computer Systems, 2020, 110, 1037-1054.	7.5	0
98	VMT: Virtualized Multi-Threading for Accelerating Graph Workloads on Commodity Processors. IEEE Transactions on Computers, 2022, 71, 1386-1398.	3.4	0
99	OMHI 2012: First International Workshop on On-chip Memory Hierarchies and Interconnects: Organization, Management and Implementation. Lecture Notes in Computer Science, 2013, , 305-306.	1.3	0
100	A Neural Network to Estimate Isolated Performance from Multi-Program Execution. , 2022, , .		0