Marina Zapater

List of Publications by Year
in descending order

62	595	759055	839398
papers	citations	12	18
		h-index	g-index
63	63	63	532
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	HackRFâ€‰‹b›+‹/b›â€‰GNU Radio: A software-defined radio to teach communication theory. International Journal of Electrical Engineering and Education, 2023, 60, 23-40.	0.4	7
2	MAGNETIC: Multi-Agent Machine Learning-Based Approach for Energy Efficient Dynamic Consolidation in Data Centers. IEEE Transactions on Services Computing, 2022, 15, 30-44.	3.2	23
3	Multiagent Reinforcement Learning for Hyperparameter Optimization of Convolutional Neural Networks. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1034-1047.	1.9	10
4	3D-ICE 3.0: Efficient Nonlinear MPSoC Thermal Simulation With Pluggable Heat Sink Models. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1062-1075.	1.9	12
5	COCKTAIL: Multicore Co-Optimization Framework With Proactive Reliability Management. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 386-399.	1.9	0
6	Energy-aware task scheduling in data centers using an application signature. Computers and Electrical Engineering, 2022, 97, 107630.	3.0	2
7	Reinforcement Learning-Based Joint Reliability and Performance Optimization for Hybrid-Cache Computing Servers. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 5596-5609.	1.9	1
8	ECOGreen: Electricity Cost Optimization for Green Datacenters in Emerging Power Markets. IEEE Transactions on Sustainable Computing, 2021, 6, 289-305.	2.2	7
9	Fast energy estimation framework for long-running applications. Future Generation Computer Systems, 2021, 115, 20-33.	4.9	2
10	Interpreting deep learning models for epileptic seizure detection on EEG signals. Artificial Intelligence in Medicine, 2021, 117, 102084.	3.8	35
11	Gem5-X. Transactions on Architecture and Code Optimization, 2021, 18, 1-27.	1.6	9
12	The RECIPE approach to challenges in deeply heterogeneous high performance systems. Microprocessors and Microsystems, 2020, 77, 103185.	1.8	12
13	Genome Sequence Alignment - Design Space Exploration for Optimal Performance and Energy Architectures. IEEE Transactions on Computers, 2020, , 1-1.	2.4	3
14	Containergyâ€"A Container-Based Energy and Performance Profiling Tool for Next Generation Workloads. Energies, 2020, 13, 2162.	1.6	5
15	Resource Management for Power-Constrained HEVC Transcoding Using Reinforcement Learning. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2834-2850.	4.0	8
16	BLADE: An in-Cache Computing Architecture for Edge Devices. IEEE Transactions on Computers, 2020, 69, 1349-1363.	2.4	40
17	Accelerating Inference on Binary Neural Networks with Digital RRAM Processing. IFIP Advances in Information and Communication Technology, 2020, , 257-278.	0.5	1
18	Towards Deeply Scaled 3D MPSoCs with Integrated Flow Cell Array Technology. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	MAMUT: Multi-Agent Reinforcement Learning for Efficient Real-Time Multi-User Video Transcoding. , 2019, , .		10
20	Gem5-X: A Gem5-Based System Level Simulation Framework to Optimize Many-Core Platforms. , 2019, , .		16
21	BLADE. , 2019, , .		12
22	A Fast, Reliable and Wide-Voltage-Range In-Memory Computing Architecture. , 2019, , .		21
23	Enhancing Two-Phase Cooling Efficiency through Thermal-Aware Workload Mapping for Power-Hungry Servers. , 2019, , .		3
24	A Machine Learning-Based Framework for Throughput Estimation of Time-Varying Applications in Multi-Core Servers. , 2019, , .		3
25	An Associativity-Agnostic in-Cache Computing Architecture Optimized for Multiplication. , 2019, , .		8
26	Machine Learning-Based Quality-Aware Power and Thermal Management of Multistream HEVC Encoding on Multicore Servers. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2268-2281.	4.0	10
27	Energy proportionality in near-threshold computing servers and cloud data centers: Consolidating or Not?. , 2018, , .		8
28	Power transmission and workload balancing policies in eHealth mobile cloud computing scenarios. Future Generation Computer Systems, 2018, 78, 587-601.	4.9	18
29	PowerCool: Simulation of Cooling and Powering of 3D MPSoCs with Integrated Flow Cell Arrays. IEEE Transactions on Computers, 2018, 67, 73-85.	2.4	14
30	Integrating Heuristic and Machine-Learning Methods for Efficient Virtual Machine Allocation in Data Centers. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2018, 37, 1667-1680.	1.9	26
31	Reliable power and time-constraints-aware predictive management of heterogeneous exascale systems. , 2018, , .		12
32	Fast Energy Estimation Through Partial Execution of HPC Applications. , 2018, , .		1
33	Online efficient bio-medical video transcoding on MPSoCs through content-aware workload allocation. , 2018, , .		4
34	Design of a Two-Phase Gravity-Driven Micro-Scale Thermosyphon Cooling System for High-Performance Computing Data Centers. , 2018, , .		7
35	A Machine Learning-Based Strategy for Efficient Resource Management of Video Encoding on Heterogeneous MPSoCs. , 2018, , .		2
36	Exploring manycore architectures for next-generation HPC systems through the MANGO approach. Microprocessors and Microsystems, 2018, 61, 154-170.	1.8	13

#	Article	IF	Citations
37	Reconsidering the performance of DEVS modeling and simulation environments using the DEVStone benchmark. Simulation, 2017, 93, 459-476.	1.1	21
38	A machine learning-based approach for power and thermal management of next-generation video coding on MPSoCs. , 2017, , .		4
39	Thermal characterization of next-generation workloads on heterogeneous MPSoCs. , 2017, , .		10
40	MANGO: Exploring Manycore Architectures for Next-GeneratiOn HPC Systems. , 2017, , .		10
41	Runtime data center temperature prediction using Grammatical Evolution techniques. Applied Soft Computing Journal, 2016, 49, 94-107.	4.1	24
42	Towards Near-Threshold Server Processors. , 2016, , .		15
43	Unsupervised Power Modeling of Co-Allocated Workloads for Energy Efficiency in Data Centers. , 2016, , .		3
44	Using Grammatical Evolution Techniques to Model the Dynamic Power Consumption of Enterprise Servers. , 2015, , .		5
45	Dynamic workload and cooling management in high-efficiency data centers. , 2015, , .		7
46	Energy-Aware Policies in Ubiquitous Computing Facilities. , 2015, , 267-286.		0
47	Self-organizing Maps versus Growing Neural Gas in Detecting Anomalies in Data Centres. Logic Journal of the IGPL, 2015, 23, 495-505.	1.3	6
48	Leakage-Aware Cooling Management for Improving Server Energy Efficiency. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2764-2777.	4.0	33
49	A Trust and Reputation System for Energy Optimization in Cloud Data Centers. , 2015, , .		3
50	Comparative study of meta-heuristic 3D floorplanning algorithms. Neurocomputing, 2015, 150, 67-81.	3.5	4
51	Enhancing Regression Models for Complex Systems Using Evolutionary Techniques for Feature Engineering. Journal of Grid Computing, 2015, 13, 409-423.	2.5	9
52	Server Power Modeling for Run-time Energy Optimization of Cloud Computing Facilities. Energy Procedia, 2014, 62, 401-410.	1.8	16
53	A novel energy-driven computing paradigm for e-health scenarios. Future Generation Computer Systems, 2014, 34, 138-154.	4.9	13
54	Project-Based Learning and Agile Methodologies in Electronic Courses: Effect of Student Population and Open Issues. Electronics, 2014, 17, .	0.2	2

#	ARTICLE	IF	CITATIONS
55	Leakage and Temperature Aware Server Control for Improving Energy Efficiency in Data Centers. , 2013, , .		28
56	Ubiquitous Green Computing Techniques for High Demand Applications in Smart Environments. Sensors, 2012, 12, 10659-10677.	2.1	7
57	Compiler Optimizations as a Countermeasure against Side-Channel Analysis in MSP430-Based Devices. Sensors, 2012, 12, 7994-8012.	2.1	2
58	Leveraging Heterogeneity for Energy Minimization in Data Centers. , 2012, , .		4
59	GreenDisc: A HW/SW Energy Optimization Framework in Globally Distributed Computation. Lecture Notes in Computer Science, 2012, , 1-8.	1.0	0
60	RFID Performance in Localization Systems. Lecture Notes in Computer Science, 2011, , 73-78.	1.0	0
61	[2010] Combined Dynamic-Static Approach for Thermal-Awareness in Heterogeneous Data Centers. , 2010, , .		0
62	[2010] Avoiding Side-Channel Attacks in Embedded Systems with Non-deterministic Branches. , 2010, , .		0