Lucas Wanner

List of Publications by Year
in descending order

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33 papers	233 citations	1478505 6 h-index	1372567 10 g-index
33 all docs	33 docs citations	33 times ranked	184 citing authors

#	Article	IF	Citations
1	SmartApprox: Learning-based configuration of approximate memories forÂenergy-efficient execution. Sustainable Computing: Informatics and Systems, 2022, 34, 100701.	2.2	1
2	Towards an Energy-Efficient Approximate Computer Implementation. Smart Innovation, Systems and Technologies, 2021, , 845-853.	0.6	0
3	An IoT-Based System for Monitoring the Health of Guyed Towers in Overhead Power Lines. Sensors, 2021, 21, 6173.	3.8	6
4	ADeLe: A description language for approximate hardware. Future Generation Computer Systems, 2020, 102, 245-258.	7.5	5
5	AxRAM: A lightweight implicit interface for approximate data access. Future Generation Computer Systems, 2020, 113, 556-570.	7.5	7
6	Bringing Energy Information to the Instruction Set. , 2020, , .		0
7	Risk-5: Controlled Approximations for RISC-V. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4052-4063.	2.7	7
8	A Resilient Interface for Approximate Data Access. , 2019, , .		0
9	A Framework for Variable Quality in Applications through Context-Aware Approximate Computing. , 2018, , .		0
10	Impact of Memory Approximation on Energy Efficiency. , 2018, , .		1
11	Time Synchronization under Temperature and Distance Variations. , 2017, , .		0
12	Speculative Precision Time Protocol: Submicrosecond clock synchronization for the IoT. , 2016, , .		20
13	X-Ware: mutant computing substrates. , 2015, , .		3
14	NSF expedition on variability-aware software: Recent results and contributions. IT - Information Technology, 2015, 57, 181-198.	0.9	10
15	A Framework for Dynamic Real-Time Reconfiguration. , 2015, , .		4
16	Runtime Optimization of System Utility with Variable Hardware. Transactions on Embedded Computing Systems, 2015, 14, 1-25.	2.9	2
17	CAreDroid. , 2015, 2015, 386-399.		37
18	Distributed programming framework for fast iterative optimization in networked cyber-physical systems. Transactions on Embedded Computing Systems, 2014, 13, 1-26.	2.9	3

#	Article	IF	Citations
19	Hardware Variability-Aware Duty Cycling for Embedded Sensors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 1000-1012.	3.1	19
20	VarEMU: An emulation testbed for variability-aware software. , 2013, , .		20
21	Towards analyzing and improving robustness of software applications to intermittent and permanent faults in hardware. , 2013, , .		4
22	Low-cost estimation of sub-system power. , 2012, , .		4
23	Variability-aware duty cycle scheduling in long running embedded sensing systems. , 2011, , .		11
24	Programming Support for Distributed Optimization and Control in Cyber-Physical Systems. , 2011, , .		5
25	Evaluation of an RSSI-based Location Algorithm for Wireless Sensor Networks. IEEE Latin America Transactions, 2011, 9, 830-835.	1.6	15
26	One-Shot Time Management Analysis in EPOS. , 2008, , .		2
27	An efficient calibration method for RSSI-based location algorithms. , 2008, , .		9
28	Power management in the EPOS system. Operating Systems Review (ACM), 2008, 42, 71-80.	1.9	4
29	Configurable Medium Access Control for Wireless Sensor Networks. , 2007, , 401-410.		4
30	Operating Systems Portability: 8 bits and beyond. , 2006, , .		9
31	Operating System Support for Data Acquisition in Sensor Networks. , 2006, , .		5
32	A Hierarchical Approach for Power Management on Mobile Embedded Systems. International Federation for Information Processing, 2006, , 265-274.	0.4	16
33	Sensibilidade a erros em aplicaÃ§Ãµes na arquitetura RISC-V. , 0, , .		0