Lesley Shannon

List of Publications by Year
in descending order

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32 papers	421 citations	2257833 3 h-index	2053595 5 g-index
32 all docs	32 docs citations	32 times ranked	391 citing authors

#	Article	IF	Citations
1	Abigaille-III: A Versatile, Bioinspired Hexapod for Scaling Smooth Vertical Surfaces. Journal of Bionic Engineering, 2014, 11, 1-17.	2.7	67
2	FUSE: Front-End User Framework for O/S Abstraction of Hardware Accelerators. , 2011, , .		55
3	Amoeba-Cache: Adaptive Blocks for Eliminating Waste in the Memory Hierarchy. , 2012, , .		49
4	Efficient PUF-Based Key Generation in FPGAs Using Per-Device Configuration. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 364-375.	2.1	41
5	TAIGA: A new RISC-V soft-processor framework enabling high performance CPU architectural features. , 2017, , .		33
6	Coupling bio-logging with nutritional geometry to reveal novel insights into the foraging behaviour of a plunge-diving marine predator. New Zealand Journal of Marine and Freshwater Research, 2016, 50, 418-432.	0.8	24
7	Polyblaze: From one to many bringing the microblaze into the multicore era with Linux SMP support. , 2012, , .		23
8	Scalable, High Performance Fourier Domain Optical Coherence Tomography: Why FPGAs and Not GPGPUs. , 2011, , .		18
9	Evaluating the Performance Efficiency of a Soft-Processor, Variable-Length, Parallel-Execution-Unit Architecture for FPGAs Using the RISC-V ISA. , 2018, , .		15
10	Technology Scaling in FPGAs: Trends in Applications and Architectures. , 2015, , .		13
11	Rethinking Integer Divider Design for FPGA-Based Soft-Processors. , 2019, , .		13
12	Modular Block-RAM-Based Longest-Prefix Match Ternary Content-Addressable Memories. , 2018, , .		11
13	Supergenes in a genetic algorithm for heterogeneous FPGA placement. , 2013, , .		8
14	Identifying and placing heterogeneously-sized cluster groupings based on FPGA placement data. , 2014, , .		7
15	Finding System-Level Information and Analyzing Its Correlation to FPGA Placement. , 2010, , .		6
16	A configurable framework for investigating workload execution. , 2010, , .		5
17	Exploring FPGA technology mapping for fracturable LUT minimization. , 2011, , .		5
18	Minimizing the error: A study of the implementation of an Integer Split-Radix FFT on an FPGA for medical imaging. , 2012, , .		5

#	Article	IF	Citations
19	Revisiting Deep Learning Parallelism: Fine-Grained Inference Engine Utilizing Online Arithmetic. , 2019, , .		5
20	Bio-inspired walking: A FPGA multicore system for a legged robot. , 2012, , .		4
21	FPGA Computing. IEEE Micro, 2021, 41, 6-7.	1.8	3
22	A Multiprocessor System-on-Chip Implementation of a Laser-based Transparency Meter on an FPGA. , 2007, , .		2
23	A new flexible PR domain model to replace the fixed multi-PR region model for DPR systems. , 2008, , .		2
24	A multi-beam Scan Mode Synthetic Aperture Radar processor suitable for satellite operation. , 2016, , .		2
25	Extending the SIMPPL SoC architectural framework to support application-specific architectures on multi-FPGA platforms. , 2008, , .		1
26	An on-chip testbed that emulates runtime traffic and reduces design verification time for FPGA designs. , 2008, , .		1
27	Facilitating Processor-Based DPR Systems for non-DPR Experts. , 2008, , .		1
28	Exploring Writeback Designs for Efficiently Leveraging Parallel-Execution Units in FPGA-Based Soft-Processors. , 2020, , .		1
29	Reliable Circuit Design Using a Fast Incremental-Based Gate Sizing Under Process Variation. IEEE Transactions on Device and Materials Reliability, 2022, 22, 371-380.	1.5	1
30	Customizing controller instruction sets for application-specific architectures. , 2010, , .		0
31	Guest Editorial: Field-Programmable Technology. Journal of Signal Processing Systems, 2012, 67, 1-2.	1.4	0
32	Future DREAMS: Dynamically Reconfigurable Extensible Architectures for Manycore Systems. , 2015, , 151-165.		0