Stefania Perri

List of Publications by Citations

88 papers	856 citations	16 h-index	23 g-index
95 ext. papers	1,119 ext. citations	2 avg, IF	4.48 L-index

#	Paper	IF	Citations
88	Low-Power Level Shifter for Multi-Supply Voltage Designs. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2012**, 59, 922-926	3.5	54
87	Fast and Wide Range Voltage Conversion in Multisupply Voltage Designs. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2015**, 23, 388-391	2.6	47
86	Area-Delay Efficient Binary Adders in QCA. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2014**, 22, 1174-1179	2.6	43
85	Gate-level body biasing technique for high-speed sub-threshold CMOS logic gates. *International Journal of Circuit Theory and Applications*, **2014**, 42, 65-70	2	32
84	New Methodology for the Design of Efficient Binary Addition Circuits in QCA. *IEEE Nanotechnology Magazine*, **2012**, 11, 1192-1200	2.6	32
83	Design of Efficient Binary Comparators in Quantum-Dot Cellular Automata. *IEEE Nanotechnology Magazine*, **2014**, 13, 192-202	2.6	31
82	Adaptive Census Transform: A novel hardware-oriented stereovision algorithm. *Computer Vision and Image Understanding*, **2013**, 117, 29-41	4.3	30
81	A high-performance fully reconfigurable FPGA-based 2D convolution processor. *Microprocessors and Microsystems*, **2005**, 29, 381-391	2.4	28
80	Analytical Delay Model Considering Variability Effects in Subthreshold Domain. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2012**, 59, 168-172	3.5	25
79	Comparative analysis of yield optimized pulsed flip-flops. *Microelectronics Reliability*, **2012**, 52, 1679-1689	2.2	20
78	Fast Low-Cost Implementation of Single-Clock-Cycle Binary Comparator. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2008**, 55, 1239-1243	3.5	20
77	Low-cost FPGA stereo vision system for real time disparity maps calculation. *Microprocessors and Microsystems*, **2012**, 36, 281-288	2.4	18
76	Designing High-Speed Adders in Power-Constrained Environments. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2009**, 56, 172-176	3.5	17
75	Techniques for Leakage Energy Reduction in Deep Submicrometer Cache Memories. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2006**, 14, 1238-1249	2.6	17
74	. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 1456-1464	3.9	16
73	High-performance noise-tolerant circuit techniques for CMOS dynamic logic. *IET Circuits, Devices and Systems*, **2008**, 2, 537	1.1	16
72	SAD-Based Stereo Matching Circuit for FPGAs **2006**,		16

71	A New Reconfigurable Coarse-Grain Architecture for Multimedia Applications **2007**,		14
70	An Efficient Connected Component Labeling Architecture for Embedded Systems. *Journal of Low Power Electronics and Applications*, **2018**, 8, 7	1.7	13
69	Impact of Process Variations on Flip-Flops Energy and Timing Characteristics **2010**,		13
68	Design of efficient QCA multiplexers. *International Journal of Circuit Theory and Applications*, **2016**, 44, 602-615	2	12
67	A fast carry chain adder for Virtex-5 FPGAs **2010**,		12
66	Low-power split-path data-driven dynamic logic. *IET Circuits, Devices and Systems*, **2009**, 3, 303-312	1.1	12
65	An embedded machine vision system for an in-line quality check of assembly processes. *Procedia Manufacturing*, **2020**, 42, 211-218	1.5	12
64	Energy-Efficient Architecture for CNNs Inference on Heterogeneous FPGA. *Journal of Low Power Electronics and Applications*, **2020**, 10, 1	1.7	11
63	MORA: A New Coarse-Grain Reconfigurable Array for High Throughput Multimedia Processing **2007** , 159-168		11
62	Low-Leakage SRAM Wordline Drivers for the 28-nm UTBB FDSOI Technology. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2015**, 23, 3133-3137	2.6	10
61	A high-speed energy-efficient 64-bit reconfigurable binary adder. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2003**, 11, 939-943	2.6	10
60	Microprocessor-based FPGA implementation of SPIHT image compression subsystems. *Microprocessors and Microsystems*, **2005**, 29, 299-305	2.4	10
59	64-bit reconfigurable adder for low power media processing. *Electronics Letters*, **2002**, 38, 397	1.1	10
58	Energy-Quality Scalable Adders Based on Nonzeroing Bit Truncation. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2019**, 27, 964-968	2.6	10
57	Energy-efficient single-clock-cycle binary comparator. *International Journal of Circuit Theory and Applications*, **2012**, 40, 237-246	2	9
56	Efficient memory architecture for image processing. *International Journal of Circuit Theory and Applications*, **2011**, 39, 351-356	2	9
55	A self-hosting configuration management system to mitigate the impact of Radiation-Induced Multi-Bit Upsets in SRAM-based FPGAs **2010**,		9
54	A high flexible Early-Late Gate bit synchronizer in FPGA-based software defined radios **2008**,		9

53	Variable precision arithmetic circuits for FPGA-based multimedia processors. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2004**, 12, 995-999	2.6	9
52	An efficient hardware-oriented stereo matching algorithm. *Microprocessors and Microsystems*, **2016**, 46, 21-33	2.4	9
51	Design of Real-Time FPGA-based Embedded System for Stereo Vision **2018**,		8
50	An Efficient Hardware-Oriented Single-Pass Approach for Connected Component Analysis. *Sensors*, **2019**, 19,	3.8	8
49	Design of Energy Aware Adder Circuits Considering Random Intra-Die Process Variations. *Journal of Low Power Electronics and Applications*, **2011**, 1, 97-108	1.7	7
48	A new low-power high-speed single-clock-cycle binary comparator **2010**,		7
47	Design-Space Exploration of Energy-Delay-Area Efficient Coarse-Grain Reconfigurable Datapath **2009**,		7
46	A matrix product accelerator for field programmable systems on chip. *Microprocessors and Microsystems*, **2008**, 32, 53-67	2.4	7
45	Multimodal background subtraction for high-performance embedded systems. *Journal of Real-Time Image Processing*, **2019**, 16, 1407-1423	1.9	7
44	Embedded surveillance system using background subtraction and Raspberry Pi **2015**,		6
43	VLSI implementations of efficient isotropic flexible 2D convolvers. *IET Circuits, Devices and Systems*, **2007**, 1, 263	1.1	6
42	A programmable carrier phase independent symbol timing recovery circuit for QPSK/OQPSK signals. *Microprocessors and Microsystems*, **2008**, 32, 437-446	2.4	6
41	Design and Evaluation of an Energy-Delay-Area Efficient Datapath for Coarse-Grain Reconfigurable Computing Systems. *Journal of Low Power Electronics*, **2009**, 5, 326-338	1.2	6
40	Efficient Approximate Adders for FPGA-Based Data-Paths. *Electronics (Switzerland)*, **2020**, 9, 1529	2.6	6
39	Design of a real-time face detection architecture for heterogeneous systems-on-chips. *The Integration VLSI Journal*, **2020**, 74, 1-10	1.4	5
38	Approximate Multipliers With Dynamic Truncation for Energy Reduction via Graceful Quality Degradation. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2020**, 67, 3427-3431	3.5	5
37	Parallel architecture of power-of-two multipliers for FPGAs. *IET Circuits, Devices and Systems*, **2020**, 14, 381-389	1.1	5
36	Impact of Process Variations on Pulsed Flip-Flops: Yield Improving Circuit-Level Techniques and Comparative Analysis. *Lecture Notes in Computer Science*, **2011**, 180-189	0.9	5

35	An Efficient Bit-Detection and Timing Recovery Circuit for FPGAs **2006**,		5
34	Stereo vision architecture for heterogeneous systems-on-chip. *Journal of Real-Time Image Processing*, **2020**, 17, 393-415	1.9	5
33	Designing Fast Convolutional Engines for Deep Learning Applications **2018**,		5
32	A Parallel Connected Component Labeling Architecture for Heterogeneous Systems-on-Chip. *Electronics (Switzerland)*, **2020**, 9, 292	2.6	4
31	A novel background subtraction method based on color invariants and grayscale levels **2014**,		4
30	Design of high-speed low-power parallel-prefix adder trees in nanometer technologies. *International Journal of Circuit Theory and Applications*, **2014**, 42, 731-743	2	4
29	Efficient absolute difference circuits in Virtex-5 FPGAs **2010**,		4
28	An Efficient and Low-Cost Design Methodology to Improve SRAM-Based FPGA Robustness in Space and Avionics Applications. *Lecture Notes in Computer Science*, **2009**, 74-84	0.9	4
27	VLSI circuits for low-power high-speed asynchronous addition. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2002**, 10, 608-613	2.6	4
26	A new high performance circuit for statistical carry lookahead addition. *International Journal of Electronics*, **1999**, 86, 713-722	1.2	4
25	Reconfigurable Convolution Architecture for Heterogeneous Systems-on-Chip **2020**,		4
24	Efficient Architecture for Integral Image Computation on Heterogeneous FPGAs **2019**,		2
23	Exploring well configurations for voltage level converter design in 28 nm UTBB FDSOI technology **2015**,		2
22	Analyzing noise robustness of wide fan-in dynamic logic gates under process variations. *International Journal of Circuit Theory and Applications*, **2014**, 42, 452-467	2	2
21	**2007**,		2
20	High performance mixed-logic asynchronous datapaths with overlapped execution circuits. *International Journal of Electronics*, **2000**, 87, 1193-1208	1.2	2
19	Area-time-power tradeoff in cellular arrays VLSI implementations. *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, **2000**, 8, 614-624	2.6	2
18	Hybrid carry-select statistical carry look-ahead adder. *Electronics Letters*, **1999**, 35, 549	1.1	2

17	A New Dynamic Logic Circuit Design for an Effective Trade-Off between Noise-Immunity, Performance and Energy Dissipation. *Lecture Notes in Computer Science*, **2009**, 277-286	0.9	2
16	A Microchip Integrated Sensor for the Monitoring of High Concentration Photo-voltaic Solar Modules. *Procedia Engineering*, **2016**, 168, 1601-1604		2
15	Automatic Microstructural Classification with Convolutional Neural Network. *Advances in Intelligent Systems and Computing*, **2019**, 170-181	0.4	2
14	**2018**,		2
13	VLSI Implementation of a Low-Power High-Speed Self-Timed Adder. *Lecture Notes in Computer Science*, **2000**, 195-204	0.9	2
12	Robust and High-Performance Machine Vision System for Automatic Quality Inspection in Assembly Processes.. *Sensors*, **2022**, 22,	3.8	2
11	Power supply noise in accurate delay model for the sub-threshold domain. *The Integration VLSI Journal*, **2015**, 50, 127-136	1.4	1
10	SIMD MULTIPLIERS FOR ACCELERATING EMBEDDED PROCESSORS IN FPGAs. *Journal of Circuits, Systems and Computers*, **2006**, 15, 537-550	0.9	1
9	Parallel Multipliers using 3-Bit-Scan without Overlapping Bits **2007**,		1
8	Aggressive Approximation of the SoftMax Function for Power-Efficient Hardware Implementations. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	1
7	Efficient Deconvolution Architecture for Heterogeneous Systems-on-Chip. *Journal of Imaging*, **2020** , 6,	3.1	1
6	Approximate Down-Sampling Strategy for Power-Constrained Intelligent Systems. *IEEE Access*, **2022**, 1-1	3.5	0
5	Fast-squarer circuits using 3-bit-scan without overlapping bits. *International Journal of Circuit Theory and Applications*, **2011**, 39, 1037-1047	2	
4	An efficient self-timed adder realized using conventional CMOS standard cells. *International Journal of Electronics*, **2003**, 90, 413-422	1.2	
3	EFFICIENT RECONFIGURABLE MANCHESTER ADDERS FOR LOW-POWER MEDIA PROCESSING. *Journal of Circuits, Systems and Computers*, **2005**, 14, 57-63	0.9	
2	Learning Style Identification by CHAEA Junior Questionnaire and Artificial Neural Network Method: A Case Study. *Advances in Intelligent Systems and Computing*, **2020**, 326-336	0.4	
1	Energy Efficient Coarse-Grain Reconfigurable Array for Accelerating Digital Signal Processing. *Lecture Notes in Computer Science*, **2009**, 297-306	0.9	