## Maurizio Zamboni

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	UWB microwave imaging for breast cancer detection. Transactions on Embedded Computing Systems, 2014, 13, 1-22.	2.1	146
2	VLSI architectures for turbo codes. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 1999, 7, 369-379.	2.1	109
3	An NCL-HDL Snake-Clock-Based Magnetic QCA Architecture. IEEE Nanotechnology Magazine, 2011, 10, 1141-1149.	1.1	65
4	Majority Voter Full Characterization for Nanomagnet Logic Circuits. IEEE Nanotechnology Magazine, 2012, 11, 940-947.	1.1	45
5	ToPoliNano: A CAD Tool for Nano Magnetic Logic. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1061-1074.	1.9	40
6	Architectural strategies for low-power VLSI turbo decoders. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2002, 10, 279-285.	2.1	36
7	Magnetoelastic Clock System for Nanomagnet Logic. IEEE Nanotechnology Magazine, 2014, 13, 963-973.	1.1	34
8	Asynchrony in Quantum-Dot Cellular Automata Nanocomputation: Elixir or Poison?. IEEE Design and Test of Computers, 2011, 28, 72-83.	1.4	31
9	Feedbacks in QCA: A Quantitative Approach. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2233-2243.	2.1	28
10	Nanomagnetic Logic Microprocessor: Hierarchical Power Model. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2013, 21, 1410-1420.	2.1	26
11	A Case Study for NoC-Based Homogeneous MPSoC Architectures. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2009, 17, 384-388.	2.1	23
12	MEDEA: a hybrid shared-memory/message-passing multiprocessor NoC-based architecture. , 2010, , .		21
13	Virtual Clocking for NanoMagnet Logic. IEEE Nanotechnology Magazine, 2016, 15, 962-970.	1.1	21
14	Asynchronous Solutions for Nanomagnetic Logic Circuits. ACM Journal on Emerging Technologies in Computing Systems, 2011, 7, 1-18.	1.8	20
15	A comprehensive submicrometer MOST delay model and its application to CMOS buffers. IEEE Journal of Solid-State Circuits, 1997, 32, 1254-1262.	3.5	19
16	Reconfigurable Systolic Array: From Architecture to Physical Design for NML. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2016, 24, 3208-3217.	2.1	18
17	Novel JPEG 2000 Compliant DWT and IWT VLSI Implementations. Journal of Signal Processing Systems, 2003, 35, 137-153.	1.0	16
18	An electromigration and thermal model of power wires for a priori high-level reliability prediction. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2004, 12, 349-358.	2.1	16

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19	A flexible simulation methodology and tool for nanoarray-based architectures. , 2010, , .		16
20	Enabling design and simulation of massive parallel nanoarchitectures. Journal of Parallel and Distributed Computing, 2014, 74, 2530-2541.	2.7	16
21	NanoMagnet Logic: An Architectural Level Overview. Lecture Notes in Computer Science, 2014, , 223-256.	1.0	16
22	ToPoliNano: NanoMagnet Logic Circuits Design and Simulation. Lecture Notes in Computer Science, 2014, , 274-306.	1.0	16
23	A quantitative approach to testing in Quantum dot Cellular Automata: NanoMagnet Logic case. , 2014, ,		15
24	A NoC-based hybrid message-passing/shared-memory approach to CMP design. Microprocessors and Microsystems, 2011, 35, 261-273.	1.8	14
25	A Hardware Viewpoint on Biosequence Analysis. ACM Journal on Emerging Technologies in Computing Systems, 2013, 9, 1-21.	1.8	13
26	Powerâ€gating technique for networkâ€onâ€chip buffers. Electronics Letters, 2013, 49, 1438-1440.	0.5	13
27	Simulation and design of an UWB imaging system for breast cancer detection. The Integration VLSI Journal, 2014, 47, 548-559.	1.3	13
28	Monitoring tools for multiprocessors. Microprocessing and Microprogramming, 1986, 18, 409-416.	0.3	12
29	Protein Alignment Systolic Array Throughput Optimization. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 68-77.	2.1	12
30	DVFS Based on Voltage Dithering and Clock Scheduling for GALS Systems. , 2012, , .		11
31	LAURA-NoC: Local Automatic Rate Adjustment in Network-on-Chips With a Simple DVFS. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 647-651.	2.2	10
32	NanoMagnet Logic: An Architectural Level Overview. Lecture Notes in Computer Science, 2014, , 223-256.	1.0	10
33	A Fully Differential Digital CMOS UWB Pulse Generator. Circuits, Systems, and Signal Processing, 2009, 28, 649-664.	1.2	9
34	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	8
35	Nanofabric power analysis: Biosequence alignment case study. , 2011, , .		7
36	Magnetic QCA Design: Modeling, Simulation and Circuits. , 0, , .		7

Magnetic QCA Design: Modeling, Simulation and Circuits. , 0, , . 36

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37	A Joint Source/Channel Approach to Strengthen Embedded Programmable Devices against Flash Memory Errors. IEEE Embedded Systems Letters, 2014, 6, 77-80.	1.3	7
38	ToPoliNano: NanoMagnet Logic Circuits Design and Simulation. Lecture Notes in Computer Science, 2014, , 274-306.	1.0	7
39	Modeling, Design, and Analysis of MagnetoElastic NML Circuits. IEEE Nanotechnology Magazine, 2016, 15, 977-985.	1.1	7
40	3D design of a pNML random access memory. , 2017, , .		7
41	Hardware Acceleration of Beamforming in a UWB Imaging Unit for Breast Cancer Detection. VLSI Design, 2013, 2013, 1-11.	0.5	6
42	Design of MRAM-Based Magnetic Logic Circuits. IEEE Nanotechnology Magazine, 2017, 16, 851-859.	1.1	6
43	A mixed-signal demodulator for a low-complexity IR-UWB receiver: Methodology, simulation and design. The Integration VLSI Journal, 2009, 42, 47-60.	1.3	5
44	Interleaving in Systolic-Arrays: A Throughput Breakthrough. IEEE Transactions on Computers, 2015, 64, 1940-1953.	2.4	5
45	Electric Clock for NanoMagnet Logic Circuits. Lecture Notes in Computer Science, 2014, , 73-110.	1.0	5
46	Effects of temperature in deep-submicron global interconnect optimization in future technology nodes. Microelectronics Journal, 2004, 35, 849-857.	1.1	4
47	A Low-power CMOS 2-PPM Demodulator for Energy Detection IR-UWB Receivers. , 2007, , .		4
48	Towards Compact Modeling of Noisy Quantum Computers: A Molecular-Spin-Qubit Case of Study. ACM Journal on Emerging Technologies in Computing Systems, 2022, 18, 1-26.	1.8	4
49	UWB receiver for breast cancer detection: Comparison between two different approaches. , 2013, , .		3
50	Breast cancer detection based on an UWB imaging system: Receiver design and simulations. , 2013, , .		3
51	Nanoarray architectures multilevel simulation. ACM Journal on Emerging Technologies in Computing Systems, 2014, 10, 1-20.	1.8	3
52	Power Supply Design Parameters for Switching-Noise Control in Deep-Submicron Circuits Design Flows. Analog Integrated Circuits and Signal Processing, 2002, 31, 225-248.	0.9	2
53	A 1-bit Synchronization Algorithm for a Reduced Complexity Energy Detection UWB Receiver. , 2007, , .		2
54	An effective AMS Top-Down Methodology Applied to the Design of a Mixed-Signal UWB System-on-Chip. , 2007, , .		2

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55	The NoCRay Graphic Accelerator: a Case-study for MP-SoC Network-on-Chip Design Methodology. , 2007, , .		2
56	Data Processing and Information Classification—An In-Memory Approach. Sensors, 2020, 20, 1681.	2.1	2
57	Coupled electro-thermal modeling and optimization of clock networks. Microelectronics Journal, 2003, 34, 1175-1185.	1.1	1
58	Hybrid-SIMD: a Modular and Reconfigurable approach to Beyond von Neumann Computing. IEEE Transactions on Computers, 2021, , 1-1.	2.4	1
59	Design considerations on a VLSI Prolog interpreter. Microprocessing and Microprogramming, 1987, 21, 267-273.	0.3	Ο
60	Space and time redundancy in microcomputer bus communication. Computer Standards and Interfaces, 1988, 7, 233-246.	3.8	0
61	PROXIMA: PROlog eXecution MAchine. IEEE Journal of Solid-State Circuits, 1993, 28, 362-370.	3.5	Ο
62	NANOcom: A Mosaic Approach for nanoelectronic circuits design. , 2017, , .		0
63	Domain Wall Interconnections for NML. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2017, 25, 3067-3076.	2.1	Ο
64	Octantis: An Exploration Tool for Beyond von Neumann architectures. , 2021, , .		0