

Massimo Conti

List of Publications by Year in descending order

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116
papers

819
citations

759233

12
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123
times ranked

533
citing authors

#	ARTICLE	IF	CITATIONS
1	Transaction-level models for AMBA bus architecture using SystemC 2.0. , 0, , .		54
2	NFC-Based Traceability in the Food Chain. Sustainability, 2017, 9, 1910.	3.2	53
3	A statistical methodology for the design of high-performance CMOS current-steering digital-to-analog converters. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2002, 21, 377-394.	2.7	36
4	Artificial neural networks as approximators of stochastic processes. Neural Networks, 1999, 12, 647-658.	5.9	35
5	Parametric yield formulation of MOS IC's affected by mismatch effect. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1999, 18, 582-596.	2.7	34
6	Lithium-ion Battery Electrothermal Model, Parameter Estimation, and Simulation Environment. Energies, 2017, 10, 375.	3.1	32
7	On the approximation of stochastic processes by approximate identity neural networks. IEEE Transactions on Neural Networks, 1998, 9, 1069-1085.	4.2	29
8	Layout-based statistical modeling for the prediction of the matching properties of MOS transistors. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 680-685.	0.1	28
9	Battery Management System (BMS) simulation environment for electric vehicles. , 2016, , .		27
10	System Level Analysis of the Bluetooth Standard. , 0, , .		22
11	Cloud-based sustainable management of electrical and electronic equipment from production to end-of-life. International Journal of Quality and Reliability Management, 2019, 36, 98-119.	2.0	18
12	An Energy Harvester Interface for Self-Powered Wireless Speed Sensor. IEEE Sensors Journal, 2017, 17, 1097-1104.	4.7	16
13	Training neural networks to be insensitive to weight random variations. Neural Networks, 2000, 13, 125-132.	5.9	15
14	System-level energy estimation with Powersim. , 2011, , .		15
15	Instruction based power consumption estimation methodology. , 0, , .		13
16	Transaction-level power analysis of VLSI digital systems. The Integration VLSI Journal, 2015, 50, 116-126.	2.1	13
17	EVO-NFC: Extra Virgin Olive Oil Traceability Using NFC Suitable for Small-Medium Farms. IEEE Access, 2022, 10, 20345-20356.	4.2	13
18	Performance analysis of different arbitration algorithms of the AMBA AHB bus. , 2004, , .		12

#	ARTICLE	IF	CITATIONS
19	A Review of Health Monitoring Systems Using Sensors on Bed or Cushion. Lecture Notes in Computer Science, 2018, , 347-358.	1.3	12
20	SystemC-WMS: Mixed-Signal Simulation Based on Wave Exchanges. , 2006, , 171-185.		11
21	System Level Modelling of RF IC in SystemC-WMS. Eurasip Journal on Embedded Systems, 2008, 2008, 371768.	1.2	11
22	Parametric yield optimisation of MOS VLSI circuits based on simulated annealing and its parallel implementation. IET Circuits, Devices and Systems, 1994, 141, 387.	0.6	10
23	Approximate identity neural networks for analog synthesis of nonlinear dynamical systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 841-858.	0.1	10
24	Statistical modeling of MOS transistor mismatch based on the parameters' autocorrelation function. , 0, , .		10
25	Dynamic OSR dithered sigma-delta modulation in solid state light dimming. International Journal of Circuit Theory and Applications, 2013, 41, 387-395.	2.0	10
26	Energy harvesting with piezoelectric applied on shoes. Proceedings of SPIE, 2013, , .	0.8	10
27	Energy-Aware task scheduler for self-powered sensor nodes: From model to firmware. Ad Hoc Networks, 2015, 24, 73-91.	5.5	10
28	EV Smart Charging with Advance Reservation Extension to the OCPP Standard. Energies, 2020, 13, 3263.	3.1	10
29	Modeling of Failure Probability for Reliability and Component Reuse of Electric and Electronic Equipment. Energies, 2020, 13, 2843.	3.1	10
30	On the short-channel theory for MOS transistor. IEEE Transactions on Electron Devices, 1991, 38, 2657-2661.	3.0	9
31	A Mixed Signal Fuzzy Controller Using Current Mode Circuits. Analog Integrated Circuits and Signal Processing, 2004, 38, 215-231.	1.4	9
32	Electric Vehicles Charging Reservation Based on OCPP. , 2018, , .		9
33	Overview of the Low Complexity Enhancement Video Coding (LCEVC) Standard. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 7983-7995.	8.3	9
34	Energy estimation in SystemC with Powersim. The Integration VLSI Journal, 2016, 55, 118-128.	2.1	8
35	Cell Battery Emulator for Hardware-in-the-Loop BMS Test. , 2018, , .		8
36	Methodology for Modeling and Comparing Video Codecs: HEVC, EVC, and VVC. Electronics (Switzerland), 2020, 9, 1579.	3.1	8

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37	A general approach to nonlinear synthesis with MOS analog circuits. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1993, 40, 608-612.	0.1	7
38	A switching mode power supply with digital pulse density modulation control. , 2007, , .		7
39	Traction Control System for Motorcycles. Eurasip Journal on Embedded Systems, 2009, 2009, 1-10.	1.2	7
40	Active role of a NFC enabled smartphone in EV-EVSE charging process. , 2014, , .		7
41	SystemC-WMS: wave mixed signal simulator for non-linear heterogeneous systems. International Journal of Embedded Systems, 2014, 6, 277.	0.3	7
42	An Exploratory Study of the Policies and Legislative Perspectives on the End-of-Life of Lithium-Ion Batteries from the Perspective of Producer Obligation. Sustainability, 2021, 13, 11154.	3.2	7
43	A new methodology to produce accurate empirical models for VLSI MOSFETs. Solid-State Electronics, 1991, 34, 79-89.	1.4	6
44	Analytical device modeling for MOS analog IC's based on regularization and Bayesian estimation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1996, 15, 1309-1323.	2.7	6
45	FPGA Implementations of a Simplified Retinex Image Processing Algorithm. , 2006, , .		6
46	A traction control system for motocross and supermotard. , 2008, , .		6
47	Food Traceability in Fruit and Vegetables Supply Chain. , 2020, , .		5
48	Medication adherence supported by mHealth and NFC. Informatics in Medicine Unlocked, 2021, 23, 100552.	3.4	5
49	A new analytical and statistical-oriented approach for the two-dimensional threshold analysis of short-channel MOSFETs. Solid-State Electronics, 1989, 32, 739-747.	1.4	4
50	Dynamic power management in an AMBA-based battery-powered system. , 0, , .		4
51	Performance analysis of JPEG 2000 over 802.15.4 wireless image sensor network. , 2010, , .		4
52	Performance analysis of 802.15.4 wireless standard. , 2011, , .		4
53	Real Time Localization Using Bluetooth Low Energy. Lecture Notes in Computer Science, 2017, , 584-595.	1.3	4
54	Power Optimization in Multi-Core System-on-Chip. Embedded Multi-core Systems, 2010, , 71-109.	0.1	4

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55	Parametric Yield Optimization of MOS IC's Affected by Device Mismatch. Analog Integrated Circuits and Signal Processing, 2001, 29, 181-199.	1.4	3
56	Title is missing!. Analog Integrated Circuits and Signal Processing, 2003, 37, 85-102.	1.4	3
57	SystemC modeling of a Bluetooth transceiver: dynamic management of packet type in a noisy channel. , 0, , .		3
58	Multistable Circuits for Analog Memories Implementation. Analog Integrated Circuits and Signal Processing, 2004, 39, 109-122.	1.4	3
59	<title>Power analysis methodology and library in SystemC</title>. , 2005, , .		3
60	Dynamic OSR " controller for monolithic switching converters. , 2009, , .		3
61	A Sigma-Delta Controlled Power Converter for Energy Harvesting Applications. Lecture Notes in Electrical Engineering, 2011, , 257-270.	0.4	3
62	Test structure for mismatch characterization of MOS transistors in subthreshold regime. , 0, , .		2
63	Physical modelling in SystemC-WMS and real time synthesis of electric guitar effects. , 2007, , .		2
64	Image processing performance analysis for low power wireless image sensors. , 2007, , .		2
65	Transaction Level Modeling and Performance Analysis in SystemC of IEEE 802.15.4 Wireless Standard. , 2008, , .		2
66	Smart Wireless Image Sensors for Video Surveillance. Lecture Notes in Electrical Engineering, 2009, , 3-16.	0.4	2
67	DC-AC power converter using sigma-delta modulation. , 2010, , .		2
68	A micropower supervisor for wireless nodes with a digital pulse frequency modulator battery monitor. , 2013, , .		2
69	Design and energetic analysis of a self-powered Bluetooth low energy speed sensor. , 2016, , .		2
70	Piezoelectric Energy Harvesting on Running Shoes. Lecture Notes in Electrical Engineering, 2016, , 91-107.	0.4	2
71	Statistical characterization of lithium-ion batteries using SystemC-WMS. , 2017, , .		2
72	FPGA implementation of JPEG encoder architectures for wireless networks. Eurasip Journal on Embedded Systems, 2017, 2017, .	1.2	2

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73	Performance analysis of an indoor and outdoor real time localization system. , 2019, , .		2
74	Staged management of cardiac disease and concomitant early lung cancer: a 20-year single-center experience. European Journal of Cardio-thoracic Surgery, 2021, 59, 610-616.	1.4	2
75	Low Power Fall Detection System. IFMBE Proceedings, 2015, , 897-901.	0.3	2
76	<title>System level design and power analysis of architectures for SATD calculus in the H.264/AVC</title>. , 2005, , .		2
77	A statistical MOS model for CAD of submicrometer analog IC's. , 0, , .		1
78	Extending SystemC to Analog Modelling and Simulation. , 2004, , 229-242.		1
79	<title>Modeling of power control schemes in induction cooking devices</title>. , 2005, , .		1
80	Mixed signal SystemC modelling of a SoC architecture with Dynamic Voltage Scaling. , 2007, , .		1
81	SystemC modelling of wireless communication channel. , 2011, , .		1
82	Dynamic oversampling ratio sigma-delta modulation for the control of switching power converter. , 2011, , .		1
83	Protocol-level noise analysis of networked systems based on simulation/analytical approach. Proceedings of SPIE, 2013, , .	0.8	1
84	A SystemC Bluetooth network simulator. , 2014, , .		1
85	Fall Detection Using Wearable Accelerometers and Smartphone. Lecture Notes in Electrical Engineering, 2016, , 299-311.	0.4	1
86	SystemC/TLM Controller for Efficient NAND Flash Management in Electronic Musical Instruments. Electronics (Switzerland), 2018, 7, 75.	3.1	1
87	HW platform for BMS algorithm validation. , 2018, , .		1
88	Home Hospital e-Health Centers for Barrier-Free and Cross-Border Telemedicine. Smart Innovation, Systems and Technologies, 2019, , 307-316.	0.6	1
89	Modular Design of Electronic Appliances for Reliability Enhancement in a Circular Economy Perspective. Lecture Notes in Electrical Engineering, 2020, , 51-63.	0.4	1
90	Power Analysis of Embedded Systems. Lecture Notes in Electrical Engineering, 2011, , 301-314.	0.4	1

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91	Near Field Communication Technology for AAL. , 2014, , 33-42.		1
92	Parametric Yield Optimization Of MOS Vlsi Circuits Based On Simulated Annealing. , 0, , .		0
93	A companion macromodelling approach for the transient analysis of MOS large-scale integrated circuits. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 1992, 5, 227-243.	1.9	0
94	Development languages and environments for induction cooking system design and simulation. , 2005, , .		0
95	SystemC Analysis of a New Dynamic Power Management Architecture. , 0, , .		0
96	Bluetooth Baseband power analysis with PKtool. , 2007, , .		0
97	Dynamic power management of a system on chip based on AMBA AHB bus. , 2007, 6590, 496.		0
98	Powerline LonTalk protocol performance analysis in SystemC. , 2007, , .		0
99	Digital control of low-cost piezoelectric actuators for household appliances. , 2007, , .		0
100	WirelessUSB – Performance Analysis of an Embedded System in a Peer-to-Peer Application. , 2008, , .		0
101	Dynamic power management of network-on-chip. Proceedings of SPIE, 2009, , .	0.8	0
102	Performance analysis of mixed communication architectures: bus and network-on-chip. Proceedings of SPIE, 2009, , .	0.8	0
103	Design refinement for the development of an audio dynamic range controller. , 2010, , .		0
104	Wireless videosurveillance over 802.15.4. , 2011, , .		0
105	Selected Papers from the Symposium on Integrated Circuits and Systems Design (SBCCI 2011). International Journal of Reconfigurable Computing, 2013, 2013, 1-2.	0.2	0
106	Experimental Analysis of Battery Management System Algorithms of Li-ion Batteries. Lecture Notes in Electrical Engineering, 2019, , 221-233.	0.4	0
107	Chamberlin State-Variable Filter Structure in FPGA for Musical Applications. Lecture Notes in Electrical Engineering, 2019, , 469-475.	0.4	0
108	Uncertainty Quantification of Lithium-Ion Batteries with Polynomial Chaos. , 2020, , .		0

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109	An Enhanced POLIS Framework for Fast Exploration and Implementation of I/O Subsystems on CSoC Platforms. Lecture Notes in Computer Science, 2002, , 677-686.	1.3	0
110	A Multiprocessor Platform for Efficient Data Processing in Electronic Musical Instruments. Lecture Notes in Electrical Engineering, 2011, , 121-133.	0.4	0
111	State of Charge Monitor for Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2016, , 65-78.	0.4	0
112	Pattern recognition techniques and classification sets supporting behavioural tagging when using a limited number of body sensors. IFMBE Proceedings, 2018, , 924-927.	0.3	0
113	From Microelectronics to Nanoelectronics: Fifty Years of Advancements in Electronics. , 2019, , 1-22.		0
114	Digital Open-Loop Control of a Piezoelectric Valve for Household Appliances. Lecture Notes in Electrical Engineering, 2009, , 189-202.	0.4	0
115	Real Time Implementation of Fuzz-Face Electric Guitar Effect. Lecture Notes in Electrical Engineering, 2009, , 89-100.	0.4	0
116	Current-mode multiple-valued logic circuits implementing the SRT division algorithm. , 0, , .		0