Dominik Macko

List of Publications by Year
in descending order

39 papers	157 citations	1478505 6 h-index	1588992 8 g-index
39 all docs	39 docs citations	39 times ranked	70 citing authors

#	Article	IF	Citations
1	A New Planning-Based Collision-Prevention Mechanism in Long-Range IoT Networks. IEEE Internet of Things Journal, 2019, 6, 9439-9446.	8.7	13
2	Managing digital-system power at the system level. , 2013, , .		11
3	Power-Management Specification in SystemC. , 2015, , .		11
4	Power-management high-level synthesis. , 2015, , .		9
5	Exploration of the LoRa Technology Utilization Possibilities in Healthcare IoT Devices. , 2018, , .		9
6	Simplifying low-power SoC top-down design using the system-level abstraction and the increased automation. The Integration VLSI Journal, 2018, 63, 101-114.	2.1	8
7	Increasing Energy Efficiency by Minimizing Collisions in Long-Range IoT Networks. , 2019, , .		8
8	E-HIP: An Energy-Efficient OpenHIP-Based Security in Internet of Things Networks. Sensors, 2019, 19, 4921.	3.8	8
9	Verification of Power-Management Specification at Early Stages of Power-Constrained Systems Design. Journal of Circuits, Systems and Computers, 2017, 26, 1740002.	1.5	7
10	EEMIP: Energy-Efficient Communication Using Timing Channels and Prioritization in ZigBee. Sensors, 2019, 19, 2246.	3.8	7
11	Automation of Dynamic Power Management in FPGA-Based Energy-Constrained Systems. IEEE Access, 2020, 8, 165894-165903.	4.2	7
12	Optimization of LoRa Devices Communication for Applications in Healthcare. , 2020, , .		7
13	VHDLVisualizer: HDL model visualization with simulation-based verification. , 2012, , .		4
14	Self-managing power management unit. , 2014, , .		4
15	Early-stage verification of power-management specification in low-power systems design. , 2016, , .		4
16	Network Tester: A Generation and Evaluation of Diagnostic Communication in IP Networks. , 2018, , .		4
17	Survey: Classification of the IoT Technologies for Better Selection to Real Use. , 2020, , .		4
18	VHDL structural model visualization. , 2011, , .		3

#	Article	IF	Citations
19	PMS2UPF: An automated transition from ESL to RTL power-intent specification. , 2017, , .		3
20	Logic circuit design verification support tool - Fit Board. Procedia, Social and Behavioral Sciences, 2011, 28, 305-310.	0.5	2
21	Power-efficient power-management logic. , 2014, , .		2
22	Adoption of abstract power-management specification to FPGA-based design. , 2016, , .		2
23	IP networks diagnostic communication generator. , 2017, , .		2
24	Contribution to Automated Generating of System Power-Management Specification. , 2018, , .		2
25	Optimizing Energy Efficiency of Secured IoT Communication by OpenHip. , 2019, , .		2
26	Automated Integration of Dynamic Power Management into FPGA-Based Design. , 2019, , .		2
27	PESL: System-Level Estimation of Power-Management Effect on Dynamic Energy Consumption. Electronics (Switzerland), 2020, 9, 1313.	3.1	2
28	Upper Confidence Bound Based Communication Parameters Selection to Improve Scalability of LoRa@FIIT Communication. IEEE Sensors Journal, 2022, 22, 12415-12427.	4.7	2
29	PMHLS 2.0: An automated optimization of power management during high-level synthesis. , 2016, , .		1
30	Rapid power-management exploration using post-processing of the system-level simulation results. , 2017, , .		1
31	Adopting High-level Synthesis Approach to Accelerate Power Management Design. , 2018, , .		1
32	Automated Evaluation of a Network Device Configuration. , 2018, , .		1
33	Increasing Bluetooth Low Energy communication efficiency by presetting protocol parameters. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 3486-3499.	1.4	1
34	Simplified introduction of power intent into a register-transfer level model. Design Automation for Embedded Systems, 2021, 25, 297-324.	1.0	1
35	A New Automated Power-Estimation Method for SystemC Hardware Design. Journal of Low Power Electronics, 2017, 13, 545-550.	0.6	1
36	HIP-Based Security in IoT Networks: A comparison. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
37	Automated formal verification of the refined specification of digital systems in HSSL. , 2016, , .		0
38	Rapid Estimation of Power-Management Unit Overhead from System-Level Specification. , 2017, , .		0
39	Web-Application Based System for Automated Testing of Network-Devices Configurations. , 2020, , .		0