

Jes s L zaro

List of Publications by Year in descending order

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86
papers

790
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687220

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g-index

88
all docs

88
docs citations

88
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Computing Architecture for Sample Value Processing in the Smart Grid. IEEE Access, 2022, 10, 12208-12218.	2.6	2
2	Embedded firewall for on-chip bus transactions. Computers and Electrical Engineering, 2022, 98, 107707.	3.0	1
3	Time Sensitive Networking Protocol Implementation for Linux End Equipment. Technologies, 2022, 10, 55.	3.0	2
4	Specific Electronic Platform to Test the Influence of Hypervisors on the Performance of Embedded Systems. Technologies, 2022, 10, 65.	3.0	0
5	Evaluating Latency in Multiprocessing Embedded Systems for the Smart Grid. Energies, 2021, 14, 3322.	1.6	5
6	A Survey on Vulnerabilities and Countermeasures in the Communications of the Smart Grid. Electronics (Switzerland), 2021, 10, 1881.	1.8	15
7	A Fixed-Latency Architecture to Secure GOOSE and Sampled Value Messages in Substation Systems. IEEE Access, 2021, 9, 51646-51658.	2.6	13
8	Fast and efficient address search in System-on-a-Programmable-Chip using binary trees. Computers and Electrical Engineering, 2021, 96, 107403.	3.0	2
9	Synchronizing NTP Referenced SCADA Systems Interconnected by High-availability Networks. , 2020, , .		2
10	Secure Critical Traffic of the Electric Sector over Time-Sensitive Networking. , 2020, , .		2
11	Analysing the interference of Xen hypervisor in the network speed. , 2020, , .		4
12	Electronic control board for student Rocket. , 2020, , .		0
13	Smart Sensor: SoC Architecture for the Industrial Internet of Things. IEEE Internet of Things Journal, 2019, 6, 6567-6577.	5.5	33
14	Fast and efficient FPGA prototype system for embedded control algorithms in electric traction. , 2019, , .		1
15	SEU emulation in industrial SoCs combining microprocessor and FPGA. Reliability Engineering and System Safety, 2018, 170, 53-63.	5.1	13
16	System-on-Programmable-Chip AES-GCM implementation for wire-speed cryptography for SAS. , 2018, , .		4
17	Secure Protocol and IP Core for Configuration of Networking Hardware IPs in the Smart Grid. Energies, 2018, 11, 510.	1.6	5
18	CPPS Gateway - Implementation of Modbus and Profibus on a SoC programmable platform. IEEE Latin America Transactions, 2018, 16, 335-341.	1.2	8

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19	On the Utilization of System-on-Chip Platforms to Achieve Nanosecond Synchronization Accuracies in Substation Automation Systems. IEEE Transactions on Smart Grid, 2017, 8, 1932-1942.	6.2	19
20	A novel BRAM content accessing and processing method based on FPGA configuration bitstream. Microprocessors and Microsystems, 2017, 49, 64-76.	1.8	4
21	Estimating the SEU failure rate of designs implemented in FPGAs in presence of MCUs. Microelectronics Reliability, 2017, 78, 85-92.	0.9	12
22	Cyber-Physical Production System Gateway Based on a Programmable SoC Platform. IEEE Access, 2017, 5, 20408-20417.	2.6	18
23	MACsec Layer 2 Security in HSR Rings in Substation Automation Systems. Energies, 2017, 10, 162.	1.6	5
24	SafeSoC: A fault-tolerant-by-redundancy evaluation card for high speed serial communications. , 2016, , .		1
25	Intelligent gateway for Industry 4.0-compliant production. , 2016, , .		13
26	Cyber-security in substation automation systems. Renewable and Sustainable Energy Reviews, 2016, 54, 1552-1562.	8.2	55
27	Dependability in FPGAs, a Review. , 2015, , .		3
28	1588-aware High-Availability Cyber-Physical Production Systems. , 2015, , .		2
29	Security mechanisms to protect IEEE 1588 synchronization: State of the art and trends. , 2015, , .		16
30	PRP and HSR for High Availability Networks in Power Utility Automation: A Method for Redundant Frames Discarding. IEEE Transactions on Smart Grid, 2015, 6, 2325-2332.	6.2	27
31	FPGA implemented cut-through vs store-and-forward switches for reliable ethernet networks. , 2014, , .		8
32	Cost-effective redundancy for ethernet train communications using HSR. , 2014, , .		6
33	Fast and accurate SEU-tolerance characterization method for Zynq SoCs. , 2014, , .		12
34	Nanosecond accuracy using SoC platforms. , 2014, , .		3
35	FTL-CFree: A Fuzzy Real-Time Language for Runtime Verification. IEEE Transactions on Industrial Informatics, 2014, 10, 1670-1683.	7.2	7
36	Securing IEEE 1588 messages with message authentication codes based on the KECCAK cryptographic algorithm implemented in FPGAs. , 2014, , .		4

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37	IEEE 1588 Transparent Clock architecture for FPGA-based network devices. , 2013, , .		13
38	SDR control interface: An FPGA based infrastructure for control of VPX Software Defined Radio systems. , 2013, , .		0
39	Memory requirements analysis for PRP and HSR hardware implementations on FPGAs. , 2013, , .		0
40	PRP and HSR version 1 (IEC 62439-3 Ed.2), improvements and a prototype implementation. , 2013, , .		7
41	Duplicate and circulating frames discard methods for PRP and HSR (IEC62439-3). , 2013, , .		4
42	System-on-Chip implementation of Reliable Ethernet Networks nodes. , 2013, , .		0
43	Robustness of different TMR granularities in shared wishbone architectures on SRAM FPGA. , 2012, , .		9
44	High availability automation networks: PRP and HSR ring implementations. , 2012, , .		11
45	Known-blocking. Synchronization method for reliable processor using TMR & DPR in SRAM FPGAs. , 2011, , .		3
46	Robustness Analysis of Different AES Implementations on SRAM Based FPGAs. , 2011, , .		6
47	I2Csec: A secure serial Chip-to-Chip communication protocol. Journal of Systems Architecture, 2011, 57, 206-213.	2.5	8
48	NoCmodel: An extensible framework for Network-on-Chips modeling. , 2011, , .		0
49	An automatic experimental set-up for robustness analysis of designs implemented on SRAM FPGAS. , 2011, , .		9
50	Neuro semantic thresholding using OCR software for high precision OCR applications. Image and Vision Computing, 2010, 28, 571-578.	2.7	22
51	The Train Communication Network: Standardization goes aboard. , 2010, , .		0
52	An Autonomous Fault Tolerant System for CAN Communications. Lecture Notes in Computer Science, 2010, , 281-290.	1.0	1
53	FPGA technology for multi-axis control systems. Mechatronics, 2009, 19, 258-268.	2.0	29
54	DNAX-BCU: An Un-clonable Cost-conscious SoPC Implementation for Bus Coupling Units of the European Installation Bus. , 2009, , .		1

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55	PCIREX: A Fast Prototyping Platform for TMR Dynamically Reconfigurable Systems. , 2009, , .		2
56	AES-Galois Counter Mode Encryption/Decryption FPGA Core for Industrial and Residential Gigabit Ethernet Communications. Lecture Notes in Computer Science, 2009, , 312-317.	1.0	4
57	SoPC Implementation of the TP-KNX Protocol for Domotic Applications. , 2008, , .		3
58	Configurable-System-on-Programmable-Chip for Power Electronics Control Applications. , 2008, , .		1
59	A novel SoC architecture for a MVB slave node. , 2008, , .		4
60	Secure Ethernet Point-to-Point Links for Autonomous Electronic Ballot Boxes. Lecture Notes in Computer Science, 2008, , 603-614.	1.0	1
61	OSCRYB: Open Source CRYpto-Bridge for Secure Ethernet point-to-point Industrial Communications. , 2007, , .		3
62	High-precision DRM Demodulator for Remote Monitoring. , 2007, , .		0
63	Decompression dual core for SoPC applications in high speed FPGA. , 2007, , .		3
64	Tornado: A self-reconfiguration control system for core-based multiprocessor CSoPCs. Journal of Systems Architecture, 2007, 53, 629-643.	2.5	19
65	GPS-less location algorithm for wireless sensor networks. Computer Communications, 2007, 30, 2904-2916.	3.1	8
66	Hardware architecture for a general regression neural network coprocessor. Neurocomputing, 2007, 71, 78-87.	3.5	10
67	Real-Time Stereo Vision Processing System in a FPGA. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	10
68	Architecture of a Real-Time Wavelet Transform Calculation SoPC Core for Industrial Applications. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
69	Simulink/Modelsim Simulabel VHDL PID Core for Industrial SoPC Multiaxis Controllers. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	7
70	SOM Segmentation of gray scale images for optical recognition. Pattern Recognition Letters, 2006, 27, 1991-1997.	2.6	13
71	Node Synchronization in Wireless Sensor Networks. , 2006, , .		2
72	Multi-architectural 128 bit AES-CBC Core based on Open-Source Hardware AES Implementations for Secure Industrial Communications. , 2006, , .		4

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73	Run-Time Reconfigurable Hardware-Software Architecture for PID Motor Control IP Cores. , 2006, , .		1
74	Implementation of a modified Fuzzy C-Means clustering algorithm for real-time applications. Microprocessors and Microsystems, 2005, 29, 375-380.	1.8	31
75	Multiprocessor SoPC-Core for FAT volume computation. Microprocessors and Microsystems, 2005, 29, 421-434.	1.8	11
76	Hardware implementation of optical flow constraint equation using FPGAs. Computer Vision and Image Understanding, 2005, 98, 462-490.	3.0	66
77	An Electronic Secure Voting System Based on Automatic Paper Ballot Reading. Lecture Notes in Computer Science, 2004, , 470-477.	1.0	5
78	High Throughput Serpent Encryption Implementation. Lecture Notes in Computer Science, 2004, , 996-1000.	1.0	2
79	Malguki: an RSSI based ad hoc location algorithm. Microprocessors and Microsystems, 2004, 28, 403-409.	1.8	53
80	A Self-Reconfiguration Framework for Multiprocessor CSoPCs. Lecture Notes in Computer Science, 2004, , 1124-1126.	1.0	4
81	Modified Fuzzy C-Means Clustering Algorithm for Real-Time Applications. Lecture Notes in Computer Science, 2003, , 1087-1090.	1.0	3
82	Fault location on two-terminal transmission lines based on voltages. IET Generation, Transmission and Distribution, 1996, 143, 1.	1.1	49
83	Test workbench for electronic telecommunication systems. , 0, , .		0
84	A top-down design for the train communication network. , 0, , .		12
85	An implementation of a general regression neural network on FPGA with direct Matlab link. , 0, , .		6
86	Location algorithm for wireless sensor networks in industrial applications. , 0, , .		3