

Enrico Macii

List of Publications by Year in descending order

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623734

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all docs

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87
times ranked

839
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multi-Patient Data-Driven Approach to Blood Glucose Prediction. IEEE Access, 2019, 7, 69311-69325.	4.2	78
2	Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167.	7.6	55
3	Building Energy Modelling and Monitoring by Integration of IoT Devices and Building Information Models. , 2017, , .		45
4	A compound of feature selection techniques to improve solar radiation forecasting. Expert Systems With Applications, 2021, 178, 114979.	7.6	45
5	Distributed Software Infrastructure for General Purpose Services in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1156-1163.	9.0	42
6	Battery-Aware Operation Range Estimation for Terrestrial and Aerial Electric Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5471-5482.	6.3	42
7	Event-Driven User-Centric Middleware for Energy-Efficient Buildings and Public Spaces. IEEE Systems Journal, 2016, 10, 1137-1146.	4.6	40
8	Bellerophonotes: an RNA-Seq data analysis framework for chimeric transcripts discovery based on accurate fusion model. Bioinformatics, 2012, 28, 2114-2121.	4.1	35
9	GIS-Based Software Infrastructure to Model PV Generation in Fine-Grained Spatio-Temporal Domain. IEEE Systems Journal, 2018, 12, 2832-2841.	4.6	32
10	A Flexible Distributed Infrastructure for Real-Time Cosimulations in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 3265-3274.	11.3	31
11	A Cloud-to-Edge Approach to Support Predictive Analytics in Robotics Industry. Electronics (Switzerland), 2020, 9, 492.	3.1	26
12	Optimizing Network Traffic for Spiking Neural Network Simulations on Densely Interconnected Many-Core Neuromorphic Platforms. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 317-329.	4.6	25
13	Enable sensor networks interoperability in smart public spaces through a service oriented approach. , 2013, , .		21
14	Q-PPG: Energy-Efficient PPG-Based Heart Rate Monitoring on Wearable Devices. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 1196-1209.	4.0	20
15	Optimizing Quality Inspection and Control in Powder Bed Metal Additive Manufacturing: Challenges and Research Directions. Proceedings of the IEEE, 2021, 109, 326-346.	21.3	18
16	Optimal Battery Sizing for Electric Truck Delivery. Energies, 2020, 13, 709.	3.1	17
17	Energy-Efficient Digital Processing via Approximate Computing. , 2016, , 55-89.		14
18	Ultra-compact binary neural networks for human activity recognition on RISC-V processors. , 2021, , .		14

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19	A circuit-equivalent battery model accounting for the dependency on load frequency. , 2017, , .		13
20	One-pass logic synthesis for graphene-based Pass-XNOR logic circuits. , 2015, , .		12
21	Aging and Cost Optimal Residential Charging for Plug-In EVs. IEEE Design and Test, 2018, 35, 16-24.	1.2	12
22	Battery-aware Design Exploration of Scheduling Policies for Multi-sensor Devices. , 2018, , .		12
23	An Engineering Process model for managing a digitalised life-cycle of products in the Industry 4.0. , 2020, , .		12
24	VDJSeq-Solver: In Silico V(D)J Recombination Detection Tool. PLoS ONE, 2015, 10, e0118192.	2.5	12
25	GIS-based optimal photovoltaic panel floorplanning for residential installations. , 2018, , .		11
26	A Deep Learning Approach to the Screening of Oncogenic Gene Fusions in Humans. International Journal of Molecular Sciences, 2019, 20, 1645.	4.1	11
27	A SystemC-AMS Framework for the Design and Simulation of Energy Management in Electric Vehicles. IEEE Access, 2019, 7, 25779-25791.	4.2	11
28	A Distributed Multimodel Cosimulation Platform to Assess General Purpose Services in Smart Grids. IEEE Transactions on Industry Applications, 2020, 56, 5613-5624.	4.9	11
29	A Distributed Multimodel Platform to Cosimulate Multienergy Systems in Smart Buildings. IEEE Transactions on Industry Applications, 2021, 57, 4428-4440.	4.9	11
30	Ultra Low-Power Computation via Graphene-Based Adiabatic Logic Gates. , 2014, , .		10
31	Top-Down Profiling of Application Specific Many-core Neuromorphic Platforms. , 2015, , .		10
32	CRIME: Input-Dependent Collaborative Inference for Recurrent Neural Networks. IEEE Transactions on Computers, 2020, , 1-1.	3.4	10
33	Modeling and Simulation of Cyber-Physical Electrical Energy Systems With SystemC-AMS. IEEE Transactions on Sustainable Computing, 2020, 5, 552-567.	3.1	10
34	A Layered Methodology for the Simulation of Extra-Functional Properties in Smart Systems. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, 36, 1702-1715.	2.7	9
35	Supporting Telecommunication Alarm Management System With Trouble Ticket Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 1459-1469.	11.3	9
36	Stability and Accuracy Analysis of a Distributed Digital Real-Time Cosimulation Infrastructure. IEEE Transactions on Industry Applications, 2022, 58, 3193-3204.	4.9	9

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37	A Verilog-A Model for Reconfigurable Logic Gates Based on Graphene pn-Junctions. , 2013, , .		8
38	Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846.	4.2	8
39	Forecasting Short-term Solar Radiation for Photovoltaic Energy Predictions. , 2018, , .		8
40	Human activity recognition: suitability of a neuromorphic approach for on-edge AIoT applications. Neuromorphic Computing and Engineering, 2022, 2, 014006.	5.9	8
41	Low-Overhead Adaptive Brightness Scaling for Energy Reduction in OLED Displays. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1625-1636.	4.6	7
42	Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. Electronics (Switzerland), 2019, 8, 491.	3.1	7
43	Electric Vehicles Plug-In Duration Forecasting Using Machine Learning for Battery Optimization. Energies, 2020, 13, 4208.	3.1	7
44	Enhancing manufacturing intelligence through an unsupervised data-driven methodology for cyclic industrial processes. Expert Systems With Applications, 2021, 182, 115269.	7.6	7
45	Acceleration of coarse grain molecular dynamics on GPU architectures. Journal of Computational Chemistry, 2013, 34, 803-818.	3.3	6
46	Ultra-low power circuits using graphene p-n junctions and adiabatic computing. Microprocessors and Microsystems, 2015, 39, 962-972.	2.8	6
47	A Unified Model of Power Sources for the Simulation of Electrical Energy Systems. , 2016, , .		6
48	Battery-Aware Electric Truck Delivery Route Exploration. Energies, 2020, 13, 2096.	3.1	6
49	Flexible On-Line Reconfiguration of Multi-Core Neuromorphic Platforms. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 915-927.	4.6	6
50	Assessing the Impact of Sensor-Based Task Scheduling on Battery Lifetime in IoT Devices. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	4.7	6
51	Adaptive Random Forests for Energy-Efficient Inference on Microcontrollers. , 2021, , .		6
52	Anomaly detection on household appliances based on variational autoencoders. Sustainable Energy, Grids and Networks, 2022, 32, 100823.	3.9	6
53	Quasi-Adiabatic Logic Arrays for Silicon and Beyond-Silicon Energy-Efficient ICs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 1111-1115.	3.0	5
54	SystemC-AMS Thermal Modeling for the Co-simulation of Functional and Extra-Functional Properties. ACM Transactions on Design Automation of Electronic Systems, 2019, 24, 1-26.	2.6	5

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55	A win-win algorithm for aggregated residential energy management: resource optimisation and user acceptance learning. , 2020, , .		5
56	A User-Centric View of a Demand Side Management Program: From Surveys to Simulation and Analysis. IEEE Systems Journal, 2022, 16, 1885-1896.	4.6	5
57	Towards a Software Infrastructure for District Energy Management. , 2014, , .		4
58	IP-XACT for smart systems design: extensions for the integration of functional and extra-functional models. , 2016, , .		4
59	Benchmarking a Many-Core Neuromorphic Platform With an MPI-Based DNA Sequence Matching Algorithm. Electronics (Switzerland), 2019, 8, 1342.	3.1	4
60	Automated Synthesis of Energy-Efficient Reconfigurable-Precision Circuits. IEEE Access, 2019, 7, 172030-172044.	4.2	4
61	Cost-Aware Design and Simulation of Electrical Energy Systems. Energies, 2020, 13, 2949.	3.1	4
62	PageRank Implemented with the MPI Paradigm Running on a Many-Core Neuromorphic Platform. Journal of Low Power Electronics and Applications, 2021, 11, 25.	2.0	4
63	Design and implementation of a multi-standard event-driven energy management system for smart buildings. , 2014, , .		3
64	An Efficient MPI Implementation for Multi-Core neuromorphic Platforms. , 2017, , .		3
65	Directed Graph Placement for SNN Simulation into a multi-core GALS Architecture. , 2018, , .		3
66	Optimal Topology-Aware PV Panel Floorplanning with Hybrid Orientation. , 2018, , .		3
67	Logic Synthesis of Pass-Gate Logic Circuits With Emerging Ambipolar Technologies. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 397-410.	2.7	3
68	GAMES: A General-Purpose Architectural Model for Multi-energy System Engineering Applications. , 2020, , .		3
69	A framework for efficient evaluation and comparison of EES Models. , 2014, , .		2
70	Work-in-Progress: Multiple Alignment of Packet Sequences for Efficient Communication in a Many-Core Neuromorphic System. , 2018, , .		2
71	Fine-Grain Back Biasing for the Design of Energy-Quality Scalable Operators. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1042-1055.	2.7	2
72	Data-Driven Predictive Maintenance: A Methodology Primer. Information Fusion and Data Science, 2021, , 39-73.	0.3	2

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73	A Win-Win Algorithm for Learning the Flexibility of Aggregated Residential Appliances. IEEE Access, 2021, 9, 150495-150507.	4.2	2
74	Configuring an Embedded Neuromorphic Coprocessor Using a RISC-V Chip for Enabling Edge Computing Applications. , 2021, , .		2
75	Graph models for PLA folding problems. International Journal of Systems Science, 1995, 26, 1439-1445.	5.5	1
76	A Software Toolchain for Variability Awareness on Heterogenous Multicore Platforms. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 95-107.	4.6	1
77	Work-in-Progress: Impact of Graph Partitioning on SNN Placement for a Multi-Core Neuromorphic Architecture. , 2018, , .		1
78	A Microservices-Based Framework for Smart Design and Optimization of PV Installations. IEEE Transactions on Sustainable Computing, 2021, 6, 531-543.	3.1	1
79	Communication-Efficient Federated Learning With Gradual Layer Freezing. IEEE Embedded Systems Letters, 2023, 15, 25-28.	1.9	1
80	The impact of cell library characteristics on area, speed and power consumption of CMOS circuits. International Journal of Electronics, 1995, 78, 395-407.	1.4	0
81	A novel framework for chimeric transcript detection based on accurate gene fusion model. , 2011, , .		0
82	Empirical derivation of upper and lower bounds of NBTI aging for embedded cores. Microelectronics Reliability, 2018, 80, 294-305.	1.7	0
83	Industrial Digitisation and Maintenance: Present and Future. Information Fusion and Data Science, 2021, , 3-18.	0.3	0
84	A Hybrid Cloud-to-Edge Predictive Maintenance Platform. Information Fusion and Data Science, 2021, , 19-37.	0.3	0
85	Services to Facilitate Predictive Maintenance in Industry4.0. Information Fusion and Data Science, 2021, , 75-95.	0.3	0
86	Predicting the Oncogenic Potential of Gene Fusions Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2020, , 277-284.	1.3	0
87	Guest Editorial: Thematic Section on Applications of Emerging Computing Technologies in Smart Manufacturing and Industry 4.0. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 6-8.	4.6	0