Andrea Acquaviva

List of Publications by Year
in descending order

61 papers	1,653 citations	361296 20 h-index	315616 38 g-index
64 all docs	64 docs citations	64 times ranked	2856 citing authors

#	Article	IF	Citations
1	Making the Most of Scarce Input Data in Deep Learning-Based Source Code Classification for Heterogeneous Device Mapping. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, 41, 1636-1648.	1.9	2
2	Trimming Feature Extraction and Inference for MCU-Based Edge NILM: A Systematic Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 943-952.	7.2	25
3	Deep Learning Approaches to Source Code Analysis for Optimization of Heterogeneous Systems: Recent Results, Challenges and Opportunities. Journal of Low Power Electronics and Applications, 2022, 12, 37.	1.3	0
4	Supporting Telecommunication Alarm Management System With Trouble Ticket Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 1459-1469.	7.2	9
5	Flexible On-Line Reconfiguration of Multi-Core Neuromorphic Platforms. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 915-927.	3.2	6
6	Exploration of Convolutional Neural Network models for source code classification. Engineering Applications of Artificial Intelligence, 2021, 97, 104075.	4.3	19
7	Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846.	2.6	8
8	Spiking Neural Network-Based Near-Sensor Computing for Damage Detection in Structural Health Monitoring. Future Internet, 2021, 13, 219.	2.4	4
9	Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167.	4.4	55
10	An Online Grey-Box Model Based on Unscented Kalman Filter to Predict Temperature Profiles in Smart Buildings. Energies, 2020, 13, 2097.	1.6	6
11	A Comparison Analysis of BLE-Based Algorithms for Localization in Industrial Environments. Electronics (Switzerland), 2020, 9, 44.	1.8	20
12	Code Mapping in Heterogeneous Platforms Using Deep Learning and LLVM-IR. , 2019, , .		8
13	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979.	1.8	26
14	A Grey-box Model Based on Unscented Kalman Filter to Estimate Thermal Dynamics in Buildings. , 2019, , .		9
15	Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. Electronics (Switzerland), 2019, 8, 491.	1.8	7
16	A Multi-Patient Data-Driven Approach to Blood Glucose Prediction. IEEE Access, 2019, 7, 69311-69325.	2.6	78
17	Planning and real-time management of smart grids with high PV penetration in Italy. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2019, 172, 272-282.	0.4	5
18	Benchmarking a Many-Core Neuromorphic Platform With an MPI-Based DNA Sequence Matching Algorithm. Electronics (Switzerland), 2019, 8, 1342.	1.8	4

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19	Realistic Multi-Scale Modeling of Household Electricity Behaviors. IEEE Access, 2019, 7, 2467-2489.	2.6	26
20	A Cloud-Based On-Line Disaggregation Algorithm for Home Appliance Loads. IEEE Transactions on Smart Grid, 2019, 10, 3430-3439.	6.2	71
21	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.	3.2	25
22	GIS-Based Software Infrastructure to Model PV Generation in Fine-Grained Spatio-Temporal Domain. IEEE Systems Journal, 2018, 12, 2832-2841.	2.9	32
23	Work-in-Progress: Multiple Alignment of Packet Sequences for Efficient Communication in a Many-Core Neuromorphic System. , 2018, , .		2
24	Guest Editorial for the Special Section on Emerging Computational Paradigms. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 303-304.	3.2	0
25	Directed Graph Placement for SNN Simulation into a multi-core GALS Architecture. , 2018, , .		3
26	Work-in-Progress: Impact of Graph Partitioning on SNN Placement for a Multi-Core Neuromorphic Architecture. , 2018, , .		1
27	GIS-based optimal photovoltaic panel floorplanning for residential installations. , 2018, , .		11
28	Forecasting Short-term Solar Radiation for Photovoltaic Energy Predictions. , 2018, , .		8
29	A Software Toolchain for Variability Awareness on Heterogenous Multicore Platforms. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 95-107.	3.2	1
30	A Flexible Distributed Infrastructure for Real-Time Cosimulations in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 3265-3274.	7.2	31
31	A Novel Integrated Real-time Simulation Platform for Assessing Photovoltaic Penetration Impacts in Smart Grids. Energy Procedia, 2017, 111, 780-789.	1.8	20
32	Loss of AXIN1 drives acquired resistance to <scp>WNT</scp> pathway blockade in colorectal cancer cells carrying <scp>RSPO</scp> 3 fusions. EMBO Molecular Medicine, 2017, 9, 293-303.	3.3	54
33	Building Energy Modelling and Monitoring by Integration of IoT Devices and Building Information Models. , 2017, , .		45
34	An Efficient MPI Implementation for Multi-Coreneuromorphic Platforms. , 2017, , .		3
35	Data and Commands Communication Protocol for Neuromorphic Platform Configuration. , 2016, , .		5
36	IoT platform for Smart Cities: Requirements and implementation case studies. , 2016, , .		29

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37	Toolchain integration of runtime variability and aging awareness in multicore platforms. , 2016, , .		1
38	isomiR-SEA: an RNA-Seq analysis tool for miRNAs/isomiRs expression level profiling and miRNA-mRNA interaction sites evaluation. BMC Bioinformatics, 2016, 17, 148.	1.2	45
39	Distributed Software Infrastructure for General Purpose Services in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1156-1163.	6.2	42
40	Lighting Control and Monitoring for Energy Efficiency: A Case Study Focused on the Interoperability of Building Management Systems. IEEE Transactions on Industry Applications, 2016, 52, 2627-2637.	3.3	53
41	Event-Driven User-Centric Middleware for Energy-Efficient Buildings and Public Spaces. IEEE Systems Journal, 2016, 10, 1137-1146.	2.9	40
42	The Energy Efficiency Management at Urban Scale by Means of Integrated Modelling. Energy Procedia, 2015, 83, 258-268.	1.8	15
43	Convergent Mutations and Kinase Fusions Lead to Oncogenic STAT3 Activation in Anaplastic Large Cell Lymphoma. Cancer Cell, 2015, 27, 516-532.	7.7	378
44	Lighting control and monitoring for energy efficiency: A case study focused on the interoperability of building management systems. , 2015, , .		6
45	VDJSeq-Solver: In Silico V(D)J Recombination Detection Tool. PLoS ONE, 2015, 10, e0118192.	1.1	12
46	Design and implementation of a multi-standard event-driven energy management system for smart buildings. , 2014, , .		3
47	Towards a Software Infrastructure for District Energy Management. , 2014, , .		4
48	Pegasus: a comprehensive annotation and prediction tool for detection of driver gene fusions in cancer. BMC Systems Biology, 2014, 8, 97.	3.0	60
49	Energy saving in existing buildings by an intelligent use of interoperable ICTs. Energy Efficiency, 2013, 6, 707-723.	1.3	17
50	Acceleration of coarse grain molecular dynamics on GPU architectures. Journal of Computational Chemistry, 2013, 34, 803-818.	1.5	6
51	Semi-Automatic Generation of Device Drivers for Rapid Embedded Platform Development. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2013, 32, 1293-1306.	1.9	2
52	Energy aware TLM platform simulation via RTL abstraction. , 2012, , .		2
53	ToucHMore toolchain and system software for energy and variability customisation. , 2012, , .		0
54	Reverse Engineering of TopHat: Splice Junction Mapper for Improving Computational Aspect. , 2012, , .		0

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55	Multiscale modeling of cellular actin filaments: From atomistic molecular to coarse€grained dynamics. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1598-1609.	1.5	30
56	A novel framework for chimeric transcript detection based on accurate gene fusion model. , 2011, , .		0
57	Automated Segmentation of Cells With IHC Membrane Staining. IEEE Transactions on Biomedical Engineering, 2011, 58, 1421-1429.	2.5	33
58	A molecular dynamics study of a miRNA:mRNA interaction. Journal of Molecular Modeling, 2011, 17, 2895-2906.	0.8	15
59	A Multi-Processing Systems-on-Chip Native Simulation Framework for Power and Thermal-Aware Design. Journal of Low Power Electronics, 2011, 7, 2-16.	0.6	7
60	Interfacing human and computer with wireless body area sensor networks: the WiMoCA solution. Multimedia Tools and Applications, 2008, 38, 337-363.	2.6	62
61	Energetic sustainability of routing algorithms for energy-harvesting wireless sensor networks. Computer Communications, 2007, 30, 2976-2986.	3.1	162