

Andrea Acquaviva

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,653
citations

361413

20
h-index

315739

38
g-index

64
all docs

64
docs citations

64
times ranked

2856
citing authors

#	ARTICLE	IF	CITATIONS
1	Convergent Mutations and Kinase Fusions Lead to Oncogenic STAT3 Activation in Anaplastic Large Cell Lymphoma. Cancer Cell, 2015, 27, 516-532.	16.8	378
2	Energetic sustainability of routing algorithms for energy-harvesting wireless sensor networks. Computer Communications, 2007, 30, 2976-2986.	5.1	162
3	A Multi-Patient Data-Driven Approach to Blood Glucose Prediction. IEEE Access, 2019, 7, 69311-69325.	4.2	78
4	A Cloud-Based On-Line Disaggregation Algorithm for Home Appliance Loads. IEEE Transactions on Smart Grid, 2019, 10, 3430-3439.	9.0	71
5	Interfacing human and computer with wireless body area sensor networks: the WiMoCA solution. Multimedia Tools and Applications, 2008, 38, 337-363.	3.9	62
6	Pegasus: a comprehensive annotation and prediction tool for detection of driver gene fusions in cancer. BMC Systems Biology, 2014, 8, 97.	3.0	60
7	Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167.	7.6	55
8	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.	6.9	54
9	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.	4.9	53
10	isomiR-SEA: an RNA-Seq analysis tool for miRNAs/isomiRs expression level profiling and miRNA-mRNA interaction sites evaluation. BMC Bioinformatics, 2016, 17, 148.	2.6	45
11	Building Energy Modelling and Monitoring by Integration of IoT Devices and Building Information Models. , 2017, , .		45
12	Distributed Software Infrastructure for General Purpose Services in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1156-1163.	9.0	42
13	Event-Driven User-Centric Middleware for Energy-Efficient Buildings and Public Spaces. IEEE Systems Journal, 2016, 10, 1137-1146.	4.6	40
14	Automated Segmentation of Cells With IHC Membrane Staining. IEEE Transactions on Biomedical Engineering, 2011, 58, 1421-1429.	4.2	33
15	GIS-Based Software Infrastructure to Model PV Generation in Fine-Grained Spatio-Temporal Domain. IEEE Systems Journal, 2018, 12, 2832-2841.	4.6	32
16	A Flexible Distributed Infrastructure for Real-Time Cosimulations in Smart Grids. IEEE Transactions on Industrial Informatics, 2017, 13, 3265-3274.	11.3	31
17	Multiscale modeling of cellular actin filaments: From atomistic molecular to coarse-grained dynamics. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1598-1609.	2.6	30
18	IoT platform for Smart Cities: Requirements and implementation case studies. , 2016, , .		29

#	ARTICLE	IF	CITATIONS
19	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979.	3.1	26
20	Realistic Multi-Scale Modeling of Household Electricity Behaviors. IEEE Access, 2019, 7, 2467-2489.	4.2	26
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.	4.6	25
22	Trimming Feature Extraction and Inference for MCU-Based Edge NILM: A Systematic Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 943-952.	11.3	25
23	A Novel Integrated Real-time Simulation Platform for Assessing Photovoltaic Penetration Impacts in Smart Grids. Energy Procedia, 2017, 111, 780-789.	1.8	20
24	A Comparison Analysis of BLE-Based Algorithms for Localization in Industrial Environments. Electronics (Switzerland), 2020, 9, 44.	3.1	20
25	Exploration of Convolutional Neural Network models for source code classification. Engineering Applications of Artificial Intelligence, 2021, 97, 104075.	8.1	19
26	Energy saving in existing buildings by an intelligent use of interoperable ICTs. Energy Efficiency, 2013, 6, 707-723.	2.8	17
27	A molecular dynamics study of a miRNA:mRNA interaction. Journal of Molecular Modeling, 2011, 17, 2895-2906.	1.8	15
28	The Energy Efficiency Management at Urban Scale by Means of Integrated Modelling. Energy Procedia, 2015, 83, 258-268.	1.8	15
29	VDJSeq-Solver: In Silico V(D)J Recombination Detection Tool. PLoS ONE, 2015, 10, e0118192.	2.5	12
30	GIS-based optimal photovoltaic panel floorplanning for residential installations. , 2018, , .		11
31	A Grey-box Model Based on Unscented Kalman Filter to Estimate Thermal Dynamics in Buildings. , 2019, , .		9
32	Supporting Telecommunication Alarm Management System With Trouble Ticket Prediction. IEEE Transactions on Industrial Informatics, 2021, 17, 1459-1469.	11.3	9
33	Code Mapping in Heterogeneous Platforms Using Deep Learning and LLVM-IR. , 2019, , .		8
34	Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846.	4.2	8
35	Forecasting Short-term Solar Radiation for Photovoltaic Energy Predictions. , 2018, , .		8
36	Forecasting Heating Consumption in Buildings: A Scalable Full-Stack Distributed Engine. Electronics (Switzerland), 2019, 8, 491.	3.1	7

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37	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
38	Acceleration of coarse grain molecular dynamics on GPU architectures. Journal of Computational Chemistry, 2013, 34, 803-818.	3.3	6
39	Lighting control and monitoring for energy efficiency: A case study focused on the interoperability of building management systems. , 2015, , .		6
40	An Online Grey-Box Model Based on Unscented Kalman Filter to Predict Temperature Profiles in Smart Buildings. Energies, 2020, 13, 2097.	3.1	6
41	Flexible On-Line Reconfiguration of Multi-Core Neuromorphic Platforms. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 915-927.	4.6	6
42	Data and Commands Communication Protocol for Neuromorphic Platform Configuration. , 2016, , .		5
43	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.	0.7	5
44	Towards a Software Infrastructure for District Energy Management. , 2014, , .		4
45	Benchmarking a Many-Core Neuromorphic Platform With an MPI-Based DNA Sequence Matching Algorithm. Electronics (Switzerland), 2019, 8, 1342.	3.1	4
46	Spiking Neural Network-Based Near-Sensor Computing for Damage Detection in Structural Health Monitoring. Future Internet, 2021, 13, 219.	3.8	4
47	Design and implementation of a multi-standard event-driven energy management system for smart buildings. , 2014, , .		3
48	An Efficient MPI Implementation for Multi-Core neuromorphic Platforms. , 2017, , .		3
49	Directed Graph Placement for SNN Simulation into a multi-core GALS Architecture. , 2018, , .		3
50	Energy aware TLM platform simulation via RTL abstraction. , 2012, , .		2
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.	2.7	2
52	Work-in-Progress: Multiple Alignment of Packet Sequences for Efficient Communication in a Many-Core Neuromorphic System. , 2018, , .		2
53	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.	2.7	2
54	Toolchain integration of runtime variability and aging awareness in multicore platforms. , 2016, , .		1

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55	A Software Toolchain for Variability Awareness on Heterogenous Multicore Platforms. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 95-107.	4.6	1
56	Work-in-Progress: Impact of Graph Partitioning on SNN Placement for a Multi-Core Neuromorphic Architecture. , 2018, , .		1
57	A novel framework for chimeric transcript detection based on accurate gene fusion model. , 2011, , .		0
58	TouchMore toolchain and system software for energy and variability customisation. , 2012, , .		0
59	Reverse Engineering of TopHat: Splice Junction Mapper for Improving Computational Aspect. , 2012, , .		0
60	Guest Editorial for the Special Section on Emerging Computational Paradigms. IEEE Transactions on Emerging Topics in Computing, 2018, 6, 303-304.	4.6	0
61	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.	2.0	0