

Lucio Ciabattoni

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

939
citations

687220

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h-index

610775

24
g-index

66
all docs

66
docs citations

66
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Spectral Analysis for Fault Diagnosis of Rotating Machines. IEEE Transactions on Industrial Electronics, 2018, 65, 4301-4310.	5.2	110
2	Real time indoor localization integrating a model based pedestrian dead reckoning on smartphone and BLE beacons. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1-12.	3.3	64
3	Data-driven models for short-term thermal behaviour prediction in real buildings. Applied Energy, 2017, 204, 1375-1387.	5.1	63
4	Real-time mental stress detection based on smartwatch. , 2017, , .		55
5	Dynamic surface fault tolerant control for underwater remotely operated vehicles. ISA Transactions, 2018, 78, 10-20.	3.1	53
6	Fuzzy logic home energy consumption modeling for residential photovoltaic plant sizing in the new Italian scenario. Energy, 2014, 74, 359-367.	4.5	52
7	Fuzzy logic based economical analysis of photovoltaic energy management. Neurocomputing, 2015, 170, 296-305.	3.5	42
8	Solar irradiation forecasting using RBF networks for PV systems with storage. , 2012, , .		28
9	A smart lighting system for industrial and domestic use. , 2013, , .		26
10	A Fuzzy Logic tool for household electrical consumption modeling. , 2013, , .		22
11	A novel LDA-based approach for motor bearing fault detection. , 2015, , .		22
12	Predicting Motor and Cognitive Improvement Through Machine Learning Algorithm in Human Subject that Underwent a Rehabilitation Treatment in the Early Stage of Stroke. Journal of Stroke and Cerebrovascular Diseases, 2018, 27, 2962-2972.	0.7	22
13	Managing plug-in electric vehicles in eco-environmental operation optimization of local multi-energy systems. Sustainable Energy, Grids and Networks, 2020, 23, 100376.	2.3	22
14	Multi-apartment residential microgrid monitoring system based on kernel canonical variate analysis. Neurocomputing, 2015, 170, 306-317.	3.5	20
15	Design of a Home Energy Management System by Online Neural Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 677-682.	0.4	19
16	IoT based indoor personal comfort levels monitoring. , 2016, , .		18
17	Online tuned neural networks for PV plant production forecasting. , 2012, , .		17
18	A fuzzy logic system for the home assessment of freezing of gait in subjects with Parkinsons disease. Expert Systems With Applications, 2020, 147, 113197.	4.4	17

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19	On line solar irradiation forecasting by minimal resource allocating networks. , 2012, , .		16
20	A Discrete-time VS Controller based on RBF Neural Networks for PMSM Drives. Asian Journal of Control, 2014, 16, 396-408.	1.9	16
21	Stress Detection in Computer Users From Keyboard and Mouse Dynamics. IEEE Transactions on Consumer Electronics, 2021, 67, 12-19.	3.0	16
22	Online tuned neural networks for fuzzy supervisory control of pv-battery systems. , 2013, , .		15
23	Artificial bee colonies based optimal sizing of microgrid components: A profit maximization approach. , 2016, , .		14
24	Indoor thermal comfort control through fuzzy logic PMV optimization. , 2015, , .		13
25	An Open and Modular Hardware Node for Wireless Sensor and Body Area Networks. Journal of Sensors, 2016, 2016, 1-16.	0.6	13
26	Supervisory control of PV-battery systems by online tuned neural networks. , 2013, , .		11
27	A Smart Home Services Demonstration: Monitoring, Control and Security Services Offered to the User. , 2018, , .		11
28	AI-Powered Home Electrical Appliances as Enabler of Demand-Side Flexibility. IEEE Consumer Electronics Magazine, 2020, 9, 72-78.	2.3	10
29	Bayes error based feature selection: An electric motors fault detection case study. , 2015, , .		9
30	Residential energy monitoring and management based on fuzzy logic. , 2015, , .		9
31	A novel computer vision based e-rehabilitation system: From gaming to therapy support. , 2016, , .		9
32	A Novel Open-Source Simulator Of Electric Vehicles in a Demand-Side Management Scenario. Energies, 2021, 14, 1558.	1.6	8
33	Neural networks based home energy management system in residential PV scenario. , 2013, , .		7
34	Microgrid sizing via profit maximization: A population based optimization approach. , 2016, , .		7
35	rEMpy: a comprehensive software framework for residential energy management. Energy and Buildings, 2018, 171, 131-143.	3.1	7
36	Adaptive Extended Kalman Filter for robust sensorless control of PMSM drives. , 2011, , .		6

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37	Home energy management benefits evaluation through fuzzy logic consumptions simulator. , 2014, , .		6
38	A robust and self-tuning speed control for permanent magnet synchronous motors via meta-heuristic optimization. International Journal of Advanced Manufacturing Technology, 2018, 96, 1283-1292.	1.5	6
39	Collaborative design of a telerehabilitation system enabling virtual second opinion based on fuzzy logic. IET Computer Vision, 2018, 12, 502-512.	1.3	6
40	Estimation of rotor position and speed for sensorless DSP-based PMSM drives. , 2011, , .		5
41	A novel RSSI based approach for human indoor localization: The Fuzzy Discrete Multilateration. , 2016, , .		5
42	Serious gaming approach for physical activity monitoring: A visual feedback based on quantitative evaluation. , 2016, , .		5
43	A novel photovoltaic-thermal collector prototype: Design, modeling, experimental validation and control. , 2013, , .		4
44	Application of a wireless sensor networks and Web2Py architecture for factory line production monitoring. , 2014, , .		4
45	Real time step length estimation on smartphone. , 2016, , .		4
46	Experimental validation of a dynamic linear model of photovoltaic-thermal collector. , 2013, , .		3
47	A new open-source Energy Management framework: Functional description and preliminary results. , 2017, , .		3
48	A New Hybrid Software Tool for the Simulation of Energy Usage in a Population of Electric Vehicles. , 2020, , .		3
49	Robust speed estimation and control of PM Synchronous Motors via quasi-sliding modes. , 2010, , .		2
50	First Approach to a Holistic Tool for Assessing RES Investment Feasibility. Sustainability, 2018, 10, 1153.	1.6	2
51	A Stress Detection System based on Multimedia Input Peripherals. , 2020, , .		2
52	Cross-Domain Classification of Physical Activity Intensity: An EDA-Based Approach Validated by Wrist-Measured Acceleration and Physiological Data. Electronics (Switzerland), 2021, 10, 2159.	1.8	2
53	RBF neural networks based quasi sliding mode controller and robust speed estimation for PM Synchronous Motors. , 2010, , .		1
54	Indoor Thermal Comfort Control Based on Fuzzy Logic. Studies in Fuzziness and Soft Computing, 2016, , 829-850.	0.6	1

#	ARTICLE	IF	CITATIONS
55	Robust Control of a Photovoltaic Battery System via Fuzzy Sliding Mode Approach. Studies in Computational Intelligence, 2017, , 115-142.	0.7	1
56	Multimedia experience enhancement through affective computing. , 2017, , .		1
57	Nonlinear control of a photovoltaic battery system via ABC-tuned Dynamic Surface Controller. , 2017, , .		1
58	A sensor fusion approach for measuring emotional customer experience in an intelligent retail environment. , 2017, , .		1
59	Solar Irradiation Forecasting for PV Systems by Fully Tuned Minimal RBF Neural Networks. Smart Innovation, Systems and Technologies, 2013, , 289-300.	0.5	1
60	An Open Source Electric Vehicle Simulator With Battery Aging Modeling. , 2021, , .		1
61	Modal and harmonic experimental validation of the vibration model of an elastic structure. , 2009, , .		0
62	Fuzzy logic simulator for energy management algorithms testing. , 2014, , .		0
63	Fault detection of nonlinear processes based on switching linear regression models. , 2016, , .		0
64	A real-time Fuzzy Logic algorithm for freezing of gait management on a smartphone. , 2017, , .		0
65	Household Electrical Consumptions Modeling and Management Through Neural Networks and Fuzzy Logic Approaches. Studies in Fuzziness and Soft Computing, 2015, , 437-467.	0.6	0