

Francesco Grimaccia

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8411116/publications.pdf>

Version: 2024-02-01

73
papers

2,329
citations

236925

25
h-index

315739

38
g-index

73
all docs

73
docs citations

73
times ranked

2081
citing authors

#	ARTICLE	IF	CITATIONS
1	Short Term Electric Power Load Forecasting Using Principal Component Analysis and Recurrent Neural Networks. <i>Forecasting</i> , 2022, 4, 149-164.	2.8	19
2	Optimization Environment Definition for Beam Steering Reflectarray Antenna Design. <i>Mathematics</i> , 2022, 10, 33.	2.2	3
3	Comparison of echo state network and feed-forward neural networks in electrical load forecasting for demand response programs. <i>Mathematics and Computers in Simulation</i> , 2021, 184, 282-293.	4.4	45
4	Machine Learning-Based Detection Technique for NDT in Industrial Manufacturing. <i>Mathematics</i> , 2021, 9, 1251.	2.2	22
5	Photovoltaic Plant Inspection by means of UAV: current practices and future perspectives. , 2021, , .		2
6	Hybrid Power System Optimization in Mission-Critical Communication. <i>Electronics (Switzerland)</i> , 2020, 9, 1971.	3.1	2
7	Hybrid Renewable Power System for Radio Networks in Mission Critical Applications. , 2020, , .		2
8	Blockchain as Key Enabling Technology for Future Electric Energy Exchange: A Vision. <i>IEEE Access</i> , 2020, 8, 205250-205271.	4.2	11
9	Review of O&M Practices in PV Plants: Failures, Solutions, Remote Control, and Monitoring Tools. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 914-926.	2.5	33
10	A Computer Vision Line-Tracking Algorithm for Automatic UAV Photovoltaic Plants Monitoring Applications. <i>Energies</i> , 2020, 13, 838.	3.1	25
11	Social Network Optimization for WSN Routing: Analysis on Problem Codification Techniques. <i>Mathematics</i> , 2020, 8, 583.	2.2	5
12	Automatic Boundary Extraction of Large-Scale Photovoltaic Plants Using a Fully Convolutional Network on Aerial Imagery. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 1061-1067.	2.5	27
13	Seamless Grid: an off-chain model proposal for scalable P2P electricity markets and grids management. , 2019, , .		4
14	Optimal Task Allocation in Wireless Sensor Networks by Means of Social Network Optimization. <i>Mathematics</i> , 2019, 7, 315.	2.2	18
15	Advanced Asset Management Tools in Photovoltaic Plant Monitoring: UAV-Based Digital Mapping. <i>Energies</i> , 2019, 12, 4736.	3.1	24
16	Design of Tubular Permanent Magnet Generators for Vehicle Energy Harvesting by Means of Social Network Optimization. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 1884-1892.	7.9	30
17	Comparison of Binary Evolutionary Algorithms for Optimization of Thinned Array Antennas. , 2018, , .		5
18	Effect of introduction of hypotheses in Antenna Optimization: Thinned array test case. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
19	Modeling and Performance Evaluation of a Fuzzy Logic Controller for Buck-Boost DC/DC Converters. , 2018, , .		6
20	Assessment of PV Plant Monitoring System by Means of Unmanned Aerial Vehicles. , 2018, , .		10
21	Analysis of Photovoltaic Five-Parameter Model. , 2018, , .		1
22	Optimal Computational Distribution of Social Network Optimization in Wireless Sensor Networks. , 2018, , .		5
23	Stability Analysis and Optimal Energy Management of a Stand-Alone Hybrid Micro-Grid. , 2018, , .		3
24	Comparison of Training Approaches for Photovoltaic Forecasts by Means of Machine Learning. Applied Sciences (Switzerland), 2018, 8, 228.	2.5	46
25	An Evolutionary-Based MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading. Applied Sciences (Switzerland), 2018, 8, 558.	2.5	35
26	Analysis and validation of 24 hours ahead neural network forecasting of photovoltaic output power. Mathematics and Computers in Simulation, 2017, 131, 88-100.	4.4	221
27	Survey on PV Modulesâ€™ Common Faults After an O&M Flight Extensive Campaign Over Different Plants in Italy. IEEE Journal of Photovoltaics, 2017, 7, 810-816.	2.5	78
28	PV plant digital mapping for modulesâ€™ defects detection by unmanned aerial vehicles. IET Renewable Power Generation, 2017, 11, 1221-1228.	3.1	68
29	Weather-based machine learning technique for Day-Ahead wind power forecasting. , 2017, , .		22
30	SNO multi-objective implementation for sparse array optimization. , 2017, , .		1
31	ANN Sizing Procedure for the Day-Ahead Output Power Forecast of a PV Plant. Applied Sciences (Switzerland), 2017, 7, 622.	2.5	45
32	Thermal and Performance Analysis of a Photovoltaic Module with an Integrated Energy Storage System. Applied Sciences (Switzerland), 2017, 7, 1107.	2.5	74
33	Risk Analysis of the Future Implementation of a Safety Management System for Multiple RPAS Based on First Demonstration Flights. Electronics (Switzerland), 2017, 6, 50.	3.1	6
34	Optimization Models for Islanded Micro-Grids: A Comparative Analysis between Linear Programming and Mixed Integer Programming. Energies, 2017, 10, 241.	3.1	29
35	A new evolutionary algorithm for sparse array optimization. , 2016, , .		0
36	Optimal management algorithm for battery energy storage system included in an islanded Micro-Grid. , 2016, , .		10

#	ARTICLE	IF	CITATIONS
37	Experimental comparison of MPPT methods for PV systems under dynamic partial shading conditions. , 2016, , .		8
38	Image resolution and defects detection in PV inspection by unmanned technologies. , 2016, , .		27
39	A hybrid Fuzzy-PI cascade controller for transient stability improvement in DFIG wind generators. , 2016, , .		4
40	A comparison between SNO and PSO for reflect-array optimization. , 2016, , .		1
41	PV power plant inspection by image mosaicing techniques for IR real-time images. , 2016, , .		28
42	Improving Transient Stability in a Grid-Connected Squirrel-Cage Induction Generator Wind Turbine System Using a Fuzzy Logic Controller. Energies, 2015, 8, 6328-6349.	3.1	48
43	SOCIAL NETWORK OPTIMIZATION FOR MICROWAVE CIRCUITS DESIGN. Progress in Electromagnetics Research C, 2015, 58, 51-60.	0.9	18
44	Hybrid controller for transient stability in wind generators. , 2015, , .		7
45	IR real-time analyses for PV system monitoring by digital image processing techniques. , 2015, , .		33
46	A Physical Hybrid Artificial Neural Network for Short Term Forecasting of PV Plant Power Output. Energies, 2015, 8, 1138-1153.	3.1	152
47	Planning for PV plant performance monitoring by means of unmanned aerial systems (UAS). International Journal of Energy and Environmental Engineering, 2015, 6, 47-54.	2.5	83
48	PV power plant inspection by UAS: Correlation between altitude and detection of defects on PV modules. , 2015, , .		21
49	Innovative Automated Control System for PV Fields Inspection and Remote Control. IEEE Transactions on Industrial Electronics, 2015, 62, 7287-7296.	7.9	118
50	OPTIMIZATION OF A DUAL RING ANTENNA BY MEANS OF ARTIFICIAL NEURAL NETWORK. Progress in Electromagnetics Research B, 2014, 58, 59-69.	1.0	10
51	Small signal stability of power system with SCIG, DFIG wind turbines. , 2014, , .		9
52	Impact of SCIG, DFIG wind power plant on IEEE 14 bus system with small signal stability assessment. , 2014, , .		12
53	Pitch angle control using hybrid controller for all operating regions of SCIG wind turbine system. Renewable Energy, 2014, 70, 197-203.	8.9	116
54	Improving LVRT characteristics in variable-speed wind power generation by means of fuzzy logic. , 2014, , .		16

#	ARTICLE	IF	CITATIONS
55	SNO design of microstrip antennas for an experimental rocket. , 2014, , .		6
56	Comparison of power quality in different grid-integrated wind turbines. , 2014, , .		26
57	Hybrid model analysis and validation for PV energy production forecasting. , 2014, , .		27
58	Light Unmanned Aerial Vehicles (UAVs) for Cooperative Inspection of PV Plants. IEEE Journal of Photovoltaics, 2014, 4, 1107-1113.	2.5	188
59	Airborne Unmanned Monitoring System for Coastal Erosion Assessment. , 2014, , 115-120.		1
60	Optimization of an energy harvesting buoy for coral reef monitoring. , 2013, , .		12
61	Novel Speed-Bump Design and Optimization for Energy Harvesting From Traffic. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1983-1991.	8.0	35
62	Hybrid Predictive Models for Accurate Forecasting in PV Systems. Energies, 2013, 6, 1918-1929.	3.1	83
63	A new algorithm for antenna optimization in aerospace applications: The sounding rocket test case. , 2013, , .		15
64	Architecture and methods for UAV-based heterogeneous sensor network applications. , 2012, , .		1
65	Novel Speed Bumps Design and Optimization for Vehicles' Energy Recovery in Smart Cities. Energies, 2012, 5, 4624-4642.	3.1	31
66	Evolutionary techniques for sensor networks energy optimization in marine environmental monitoring. Proceedings of SPIE, 2012, , .	0.8	2
67	Advanced predictive models towards PV energy integration in smart grid. , 2012, , .		8
68	Performance Analysis of a Single-Axis Tracking PV System. IEEE Journal of Photovoltaics, 2012, 2, 524-531.	2.5	66
69	Architecture and Methods for Innovative Heterogeneous Wireless Sensor Network Applications. Remote Sensing, 2012, 4, 1146-1161.	4.0	35
70	Neuro-fuzzy predictive model for PV energy production based on weather forecast. , 2011, , .		26
71	Genetical Swarm Optimization of Multihop Routes in Wireless Sensor Networks. Applied Computational Intelligence and Soft Computing, 2010, 2010, 1-14.	2.3	12
72	Genetical Swarm Optimization: Self-Adaptive Hybrid Evolutionary Algorithm for Electromagnetics. IEEE Transactions on Antennas and Propagation, 2007, 55, 781-785.	5.1	104

#	ARTICLE	IF	CITATIONS
73	Regulatory and Standardization Process for Unconventional Aircraft in Light UAV Segment. , 0, , .		2