

# Alessandro Niccolai

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

553  
citations

687335

13  
h-index

752679

20  
g-index

58  
all docs

58  
docs citations

58  
times ranked

415  
citing authors

#	ARTICLE	IF	CITATIONS
1	PV plant digital mapping for modulesâ€™ defects detection by unmanned aerial vehicles. IET Renewable Power Generation, 2017, 11, 1221-1228.	3.1	68
2	Review of O&M Practices in PV Plants: Failures, Solutions, Remote Control, and Monitoring Tools. IEEE Journal of Photovoltaics, 2020, 10, 914-926.	2.5	33
3	Computational Intelligence Techniques Applied to the Day Ahead PV Output Power Forecast: PHANN, SNO and Mixed. Energies, 2018, 11, 1487.	3.1	32
4	Machine Learning techniques for solar irradiation nowcasting: Cloud type classification forecast through satellite data and imagery. Applied Energy, 2022, 305, 117834.	10.1	32
5	Design of Tubular Permanent Magnet Generators for Vehicle Energy Harvesting by Means of Social Network Optimization. IEEE Transactions on Industrial Electronics, 2018, 65, 1884-1892.	7.9	30
6	Hybrid PV Power Forecasting Methods: A Comparison of Different Approaches. Energies, 2021, 14, 451.	3.1	26
7	A Computer Vision Line-Tracking Algorithm for Automatic UAV Photovoltaic Plants Monitoring Applications. Energies, 2020, 13, 838.	3.1	25
8	Advanced Asset Management Tools in Photovoltaic Plant Monitoring: UAV-Based Digital Mapping. Energies, 2019, 12, 4736.	3.1	24
9	Machine Learning-Based Detection Technique for NDT in Industrial Manufacturing. Mathematics, 2021, 9, 1251.	2.2	22
10	Optimization of electric vehicles charging station deployment by means of evolutionary algorithms. International Journal of Intelligent Systems, 2021, 36, 5359-5383.	5.7	21
11	SOCIAL NETWORK OPTIMIZATION FOR MICROWAVE CIRCUITS DESIGN. Progress in Electromagnetics Research C, 2015, 58, 51-60.	0.9	18
12	Optimal Task Allocation in Wireless Sensor Networks by Means of Social Network Optimization. Mathematics, 2019, 7, 315.	2.2	18
13	A New Probabilistic Ensemble Method for an Enhanced Day-Ahead PV Power Forecast. IEEE Journal of Photovoltaics, 2022, 12, 581-588.	2.5	17
14	A new algorithm for antenna optimization in aerospace applications: The sounding rocket test case. , 2013, , .		15
15	Social Network Optimization Based Procedure for Beam-Scanning Reflectarray Antenna Design. IEEE Open Journal of Antennas and Propagation, 2020, 1, 500-512.	3.7	14
16	Assessment of PV Plant Monitoring System by Means of Unmanned Aerial Vehicles. , 2018, , .		10
17	Reflectarray optimization by means of SNO and PSO. , 2016, , .		9
18	Overview on Photovoltaic Inspections Procedure by means of Unmanned Aerial Vehicles. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	Comparison of Data-Driven Techniques for Nowcasting Applied to an Industrial-Scale Photovoltaic Plant. <i>Energies</i> , 2019, 12, 4520.	3.1	9
20	Recently developed social-based algorithms for antennas optimization. , 2014, , .		8
21	An Innovative Tunable Rule-Based Strategy for the Predictive Management of Hybrid Microgrids. <i>Electronics (Switzerland)</i> , 2021, 10, 1162.	3.1	8
22	Black-hole PSO and SNO for electromagnetic optimization. , 2014, , .		7
23	Self-adaptive Multi-purpose Modular Origami Structure. <i>Procedia Engineering</i> , 2016, 161, 1423-1427.	1.2	7
24	Novel population-based algorithms for reflectarray optimization. , 2014, , .		6
25	SNO design of microstrip antennas for an experimental rocket. , 2014, , .		6
26	Sparse array design by means of Social Network Optimization. , 2015, , .		6
27	Neural networks as decision making support system for hydroelectric power plant. , 2017, , .		6
28	Sun Position Identification in Sky Images for Nowcasting Application. <i>Forecasting</i> , 2020, 2, 488-504.	2.8	6
29	Comparison of Binary Evolutionary Algorithms for Optimization of Thinned Array Antennas. , 2018, , .		5
30	A semi-automated method for Defect Identification in large Photovoltaic power plants using Unmanned Aerial Vehicles. , 2018, , .		5
31	Optimal Computational Distribution of Social Network Optimization in Wireless Sensor Networks. , 2018, , .		5
32	Social Network Optimization for WSN Routing: Analysis on Problem Codification Techniques. <i>Mathematics</i> , 2020, 8, 583.	2.2	5
33	Planar array optimization by means of SNO and StudGA. , 2014, , .		4
34	Event-based measurement of power in sport activities by means of distributed wireless sensors. , 2015, , .		4
35	Impact of Cell Microcracks Size and Spatial Distribution on Output Power of PV Modules. , 2018, , .		4
36	Shaped-Beam Reflectarray Design by Means of Social Network Optimization (SNO). <i>Electronics (Switzerland)</i> , 2021, 10, 744.	3.1	4

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37	Irradiance Nowcasting by Means of Deep-Learning Analysis of Infrared Images. <i>Forecasting</i> , 2022, 4, 338-348.	2.8	4
38	Solar Position Identification on Sky Images for Photovoltaic Nowcasting applications. , 2020, , .		3
39	Optimization Environment Definition for Beam Steering Reflectarray Antenna Design. <i>Mathematics</i> , 2022, 10, 33.	2.2	3
40	SNO and mBBO Optimization Methods for beam scanning Reflectarray Antennas. , 2019, , .		2
41	Enel Green Power's AI Tool for Anomaly Detection on PV Plant Thermographies Collected with UAS. , 2021, , .		2
42	Software-based solutions for the optimization of a building electric bill using integrated PV and storage systems: a case study. , 2021, , .		2
43	Photovoltaic Plant Inspection by means of UAV: current practices and future perspectives. , 2021, , .		2
44	Population-adaptive SNO for antenna optimization. , 2015, , .		1
45	General structure-based classification of Optimization Algorithms for an objective comparison. , 2015, , .		1
46	A comparison between SNO and PSO for reflect-array optimization. , 2016, , .		1
47	A fuzzy approach to image filtering in diving video processing. , 2017, , .		1
48	SNO multi-objective implementation for sparse array optimization. , 2017, , .		1
49	Effect of introduction of hypotheses in Antenna Optimization: Thinned array test case. , 2018, , .		1
50	Analysis of Photovoltaic Five-Parameter Model. , 2018, , .		1
51	Leadership-based optimization algorithm for reflectarray optimization. , 2016, , .		0
52	A new evolutionary algorithm for sparse array optimization. , 2016, , .		0
53	Optimized linear generator for vehicle energy harvesting by social network optimization algorithm. , 2017, , .		0
54	Leadership-based algorithm for planar array optimization. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
55	Application of Social Network Optimization to shaped beam Transmitarray Antennas. , 2018, , .		0
56	Flat beam optimization of 1-bit Reflectarray by means of Social Network Optimization. , 2018, , .		0
57	Optimization of beam scanning Reflectarray using $M_{\{Q\}}C_{\{10\}}$ -BBO and SNO Algorithms. , 2019, , .		0
58	Quantification of motor abilities during the execution of judo techniques. Acta of Bioengineering and Biomechanics, 2019, 21, 3-12.	0.4	0