Sara Carcangiu

List of Publications by Year
in descending order

37 papers	**355** citations	933447 **10** h-index	839539 **18** g-index
41 all docs	**41** docs citations	**41** times ranked	**543** citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption prediction at JET through deep convolutional neural networks using spatiotemporal information from plasma profiles. Nuclear Fusion, 2022, 62, 066005.	3.5	18
2	A Closed Form Selected Mapping Algorithm for PAPR Reduction in OFDM Multicarrier Transmission. Energies, 2022, 15, 1938.	3.1	7
3	Selection of Features Based on Electric Power Quantities for Non-Intrusive Load Monitoring. Applied Sciences (Switzerland), 2021, 11, 533.	2.5	13
4	A statistical approach for the automatic identification of the start of the chain of events leading to the disruptions at JET. Nuclear Fusion, 2021, 61, 036013.	3.5	11
5	A Real Time Bolometer Tomographic Reconstruction Algorithm in Nuclear Fusion Reactors. Mathematics, 2021, 9, 1186.	2.2	2
6	NILM techniques applied to a real-time monitoring system of the electricity consumption. Acta IMEKO (2012), 2021, 10, 139.	0.7	4
7	Forecasting-Aided Monitoring for the Distribution System State Estimation. Complexity, 2020, 2020, 1-15.	1.6	11
8	Non-Intrusive Loads Monitoring Techniques for House Energy Management. , 2019, , .		1
9	A machine learning approach based on generative topographic mapping for disruption prevention and avoidance at JET. Nuclear Fusion, 2019, 59, 106017.	3.5	36
10	Towards an automatic filament detector with a Faster R-CNN on MAST-U. Fusion Engineering and Design, 2019, 146, 374-377.	1.9	12
11	Overview of the JET preparation for deuterium–tritium operation with the ITER like-wall. Nuclear Fusion, 2019, 59, 112021.	3.5	87
12	Optimization of a Power Line Communication System to Manage Electric Vehicle Charging Stations in a Smart Grid. Energies, 2019, 12, 1767.	3.1	11
13	Electric capacitance tomography for nondestructive testing of standing trees. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2252.	1.9	6
14	A Locally Recurrent Neural Network Based Approach for the Early Fault Detection. , 2018, , .		1
15	A First Analysis of JET Plasma Profile-Based Indicators for Disruption Prediction and Avoidance. IEEE Transactions on Plasma Science, 2018, 46, 2691-2698.	1.3	31
16	Multiobjective tabu search algorithm for the optimal design of a thermo-acoustic magneto-hydro-dynamic electric generator. International Journal of Applied Electromagnetics and Mechanics, 2018, 56, 133-142.	0.6	1
17	Magnetic materials characterization by Tabu Search optimization. , 2017, , .		2
18	Bit loading optimization for smart grid energy storage management. , 2017, , .		1

#	Article	IF	Citations
19	Materials characterization by Inverse Neural Network approach. , 2016, , .		0
20	Moving vector hysteron model identification based on neural network inversion. , 2016, , .		3
21	Modeling Ultrasounds for Nondestructive Testing Applications. , 2015, , 47-82.		2
22	Optimization of the set of path-rays in linear tomography. , 2013, , .		1
23	Assessment of the machine parameters affecting the overall performance of an inductive MHD generator. , 2012, , .		0
24	A Hybrid Analytical-Numerical Approach for PAPR Reduction in PLC Grids. , 2012, , .		2
25	A building-integrated eolic system for the exploitation of wind energy in urban areas. , 2012, , .		6
26	A Training Algorithm for Locally Recurrent NN Based on Explicit Gradient of Error in Fault Detection Problems. Communications in Computer and Information Science, 2012, , 125-134.	0.5	1
27	Performance analysis of an inductive MHD generator. Magnetohydrodynamics, 2012, 48, 115-124.	0.3	4
28	Bit loading Optimization for naval PLC systems. , 2011, , .		3
29	Grid-Enabled Tabu Search for Electromagnetic Optimization Problems. IEEE Transactions on Magnetics, 2010, 46, 3265-3268.	2.1	8
30	Tabu-search procedure for PAPR reduction in PLC channels. , 2010, , .		3
31	Multi Objective Optimization Algorithm Based on Neural Networks Inversion. Lecture Notes in Computer Science, 2009, , 744-751.	1.3	6
32	A constructive algorithm of neural approximation models for optimization problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 1276-1289.	0.9	11
33	Multiobjective Tabu Search Algorithms for Optimal Design of Electromagnetic Devices. IEEE Transactions on Magnetics, 2008, 44, 970-973.	2.1	25
34	Acoustic Tomography for Non Destructive Testing of Stone Masonry. Lecture Notes in Computer Science, 2008, , 596-605.	1.3	8
35	Time and Frequency Approaches to Non Destructive Testing in Concrete Pillars Using Neural Networks. Lecture Notes in Computer Science, 2008, , 606-616.	1.3	1
36	Comparison of multi€objective optimisation approaches for inverse magnetostatic problems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 293-305.	0.9	15

#	Article	IF	Citations
37	Performance Assessment of an Aeolian Roof for the Exploitation of Wind Power in Urban Areas. Renewable Energy and Power Quality Journal, 0, , 1002-1006.	0.2	0