Mauro Tucci

List of Publications by Year
in descending order

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78 papers	1,025 citations	430874 18 h-index	501196 28 g-index
80 all docs	80 docs citations	80 times ranked	1007 citing authors

#	Article	IF	Citations
1	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0
2	Fault Prediction and Early-Detection in Large PV Power Plants Based on Self-Organizing Maps. Sensors, 2021, 21, 1687.	3.8	14
3	A Deep Learning Surrogate Model for Topology Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	19
4	Condition monitoring and predictive maintenance methodologies for hydropower plants equipment. Renewable Energy, 2021, 171, 246-253.	8.9	21
5	A Regularized Procedure to Generate a Deep Learning Model for Topology Optimization of Electromagnetic Devices. Electronics (Switzerland), 2021, 10, 2185.	3.1	11
6	A multi-objective methodology for evaluating the investment in building-integrated hybrid renewable energy systems. Journal of Cleaner Production, 2021, 329, 129780.	9.3	9
7	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0
8	Deep Learning and Reduced Models for Fast Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	34
9	A Spiral Resonators Passive Array for Inductive Wireless Power Transfer Applications With Low Exposure to Near Electric Field. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1312-1322.	2.2	24
10	Short-Term Forecast of Emergency Departments Visits Through Calendar Selection. Contributions To Statistics, 2020, , 415-426.	0.2	0
11	Electric Near Field Reduction in Wireless Power Transfer Systems. , 2020, , .		0
12	One year Operation of an Innovative Condition Monitoring Technique in Four Hydropower Plants. , 2020, , .		1
13	Design and Realization of a Multiple Access Wireless Power Transfer System for Optimal Power Line Communication Data Transfer. Energies, 2019, 12, 988.	3.1	13
14	Transmission Channel Analysis for Broadband Communication over Multiconductor UIC Cables Onboard Regional Trains. Energies, 2019, 12, 497.	3.1	1
15	Wind turbine power curve estimation based on earth mover distance and artificial neural networks. IET Renewable Power Generation, 2019, 13, 2939-2946.	3.1	5
16	Wireless Power Transfer and Data Communication Cognitive Radio through Two-Coil Inductive Channel. , 2019, , .		0
17	Power Regulation in Inductive Power Transfer via Power Line Communication. , 2019, , .		1
18	Optimal synthesis, design and operation of smart microgrids serving a cluster of buildings in a campus with centralized and decentralized hybrid renewable energy systems. AIP Conference Proceedings, 2019, , .	0.4	1

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19	A Machine Learning Model for Long-Term Power Generation Forecasting at Bidding Zone Level. , 2019, , .		3
20	Impulsive Noise Mitigation With Interleaving Based on MUSIC in Power Line Communication. IEEE Transactions on Smart Grid, 2019, 10, 3575-3584.	9.0	9
21	Day-Ahead Hourly Forecasting of Power Generation From Photovoltaic Plants. IEEE Transactions on Sustainable Energy, 2018, 9, 831-842.	8.8	156
22	Fuzzy integral-based multi-sensor fusion for arc detection in the pantograph-catenary system. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 159-170.	2.0	26
23	Impulsive Noise Characterization in Narrowband Power Line Communication. Energies, 2018, 11, 863.	3.1	16
24	Indirect monitoring and early detection of faults in trains' motors. IET Electrical Systems in Transportation, 2018, 8, 86-94.	2.4	4
25	A multiâ€objective optimization algorithm based on selfâ€organizing maps applied to wireless power transfer systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2145.	1.9	6
26	Electromechanical analysis of an electrodynamic bearing. , 2017, , .		1
27	Design and experimental characterization of a combined WPTâ€“PLC system. Wireless Power Transfer, 2017, 4, 160-170.	1.1	11
28	OPTIMIZATION OF A NOVEL MAGNETO-RHEOLOGICAL DEVICE WITH PERMANENT MAGNETS. Progress in Electromagnetics Research M, 2017, 62, 175-188.	0.9	8
29	Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 2016, 141, 114-123.	3.6	25
30	Combining WPT and PLC: A review. , 2016, , .		0
31	Clustering techniques applied to a high-speed train pantographâ€“catenary subsystem for electric arc detection and classification. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 85-96.	2.0	10
32	A Multi-Objective Method for Short-Term Load Forecasting in European Countries. IEEE Transactions on Power Systems, 2016, 31, 3537-3547.	6.5	27
33	An evolutionary algorithm for global optimization based on self-organizing maps. Engineering Optimization, 2016, 48, 1740-1758.	2.6	6
34	Optimal Design of EMALS Based on a Double-Sided Tubular Linear Induction Motor. IEEE Transactions on Plasma Science, 2015, 43, 1326-1331.	1.3	22
35	Clustering analysis of the electrical load in european countries. , 2015, , .		9
36	Optimization of a magnetically coupled resonators system for Power Line Communication integration. , 2015, , .		10

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37	Displaying shape haptically using MRF-based device. , 2015, 2015, 1164-7.		3
38	Prediction of the Italian electricity price for smart grid applications. Neurocomputing, 2015, 170, 286-295.	5.9	38
39	Force Optimization of a Double-Sided Tubular Linear Induction Motor. IEEE Transactions on Magnetics, 2014, 50, 1-11.	2.1	23
40	Using electric vehicles to improve building energy sustainability. , 2014, , .		3
41	EnergyTest: A tool for assessing building energy sustainability. , 2014, , .		3
42	Electrical load clustering: The Italian case. , 2014, , .		8
43	EMALS optimal design. , 2014, , .		1
44	Arc detection in pantographâ€catenary systems by the use of support vector machinesâ€based classification. IET Electrical Systems in Transportation, 2014, 4, 45-52.	2.4	45
45	Power line communication integrated in a Wireless Power Transfer system: A feasibility study. , 2014, , .		14
46	PLC systems for electric vehicles and Smart Grid applications. , 2013, , .		27
47	Optimization of the set of path-rays in linear tomography. , 2013, , .		1
48	SVM Methods for Optimal Management of a Virtual Power Plant. Smart Innovation, Systems and Technologies, 2013, , 271-278.	0.6	1
49	Channel evaluation for power line communication in plug â€“ in electric vehicles. IET Electrical Systems in Transportation, 2012, 2, 195.	2.4	8
50	Multi-resolution based sensitivity analysis of complex non-linear circuits. IET Circuits, Devices and Systems, 2012, 6, 176.	1.4	18
51	Global optimization algorithm based on self-organizing centroids. , 2012, , .		5
52	Methods for energy price prediction in the Smart Grid. , 2012, , .		3
53	On the two-conductor modeling of three-phase cables in PLC. , 2012, , .		3
54	Time-Invariant Characteristics of Naval Power-Line Channels. IEEE Transactions on Power Delivery, 2012, 27, 858-865.	4.3	9

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55	Analysis of time-varying properties of Power Line Communication Channels in ships. , 2011, , .		2
56	A Wavelet Based Method for the Analysis of Impulsive Noise Due to Switch Commutations in Power Line Communication (PLC) Systems. IEEE Transactions on Smart Grid, 2011, 2, 92-101.	9.0	28
57	A deltaâ€method technique in the wavelet domain to determine statistical quantities of the response of electromagnetic devices with uncertain parameters. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 357-374.	1.9	2
58	A filter based neuron model for adaptive incremental learning of self-organizing maps. Neurocomputing, 2011, 74, 1815-1822.	5.9	63
59	Analysis of spectral clustering algorithms for linear and nonlinear time series. , 2011, , .		5
60	Analysis of Power-Line Communication Channels in Ships. IEEE Transactions on Vehicular Technology, 2010, 59, 3161-3170.	6.3	45
61	Analysis of transmission properties of naval power line channels. , 2010, , .		5
62	Stability analysis of self-organizing maps and vector quantization algorithms. , 2010, , .		6
63	On the time invariance of PLC channels in complex power networks. , 2010, , .		5
64	Adaptive FIR Neural Model for Centroid Learning in Self-Organizing Maps. IEEE Transactions on Neural Networks, 2010, 21, 948-960.	4.2	15
65	A New Passive Maglev System Based on Eddy Current Stabilization. IEEE Transactions on Magnetics, 2009, 45, 984-987.	2.1	29
66	Response Bounds of Indoor Power-Line Communication Systems With Cyclostationary Loads. IEEE Transactions on Power Delivery, 2009, 24, 596-603.	4.3	5
67	A Learning Algorithm for Self-Organizing Maps Based on a Low-Pass Filter Scheme. , 2009, , .		1
68	Modeling of Nonlinearly Loaded Microwave Devices by a Wavelet Convolution Operator-Based Formulation. Electromagnetics, 2009, 29, 31-52.	0.7	3
69	Cyclic Short-Time Varying Channel Estimation in OFDM Power-Line Communication. IEEE Transactions on Power Delivery, 2008, 23, 157-163.	4.3	19
70	Time domain sensitivity of non linear circuits via wavelet transform. , 2008, , .		0
71	Design of a PLC system onboard trains: Selection and analysis of the PLC channel. , 2008, , .		16
72	Nonlinear decision feedback estimation for multicarrier power line communication. , 2008, , .		2

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73	Time, Wavelet and Hilbert-Huang Domain Analysis of Signals from Ultrasonic Based Equipment for the Non Destructive Evaluation of Concrete and Brick Masonry Walls. Lecture Notes in Computer Science, 2008, , 566-581.	1.3	5
74	P1E-4 Voids Detection in Brick Masonry Structures by Using Ultrasonic Testing. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
75	Blind Channel Estimation for Power-line Communications by a Kohonen Neural Network. , 2007, , .		12
76	A Fuzzy-Logic model for impulsive noise in PLC. , 2007, , .		0
77	Analysis of Power Lines Uncertain Parameter Influence on Power Line Communications. IEEE Transactions on Power Delivery, 2007, 22, 2163-2171.	4.3	18
78	Power-line communications channel estimation and tracking by a competitive neural network. IEEE Transactions on Consumer Electronics, 2006, 52, 1213-1219.	3.6	17