

Patrice Wira

List of Publications by Year in descending order

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89
papers

894
citations

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24
g-index

90
all docs

90
docs citations

90
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	A Unified Artificial Neural Network Architecture for Active Power Filters. IEEE Transactions on Industrial Electronics, 2007, 54, 61-76.	7.9	191
2	A Self-Learning Solution for Torque Ripple Reduction for Nonsinusoidal Permanent-Magnet Motor Drives Based on Artificial Neural Networks. IEEE Transactions on Industrial Electronics, 2014, 61, 655-666.	7.9	148
3	Ontologies and Semantic Web for the Internet of Things - a survey. , 2016, , .		61
4	Direct Torque Fuzzy Control of PMSM based on SVM. Energy Procedia, 2015, 74, 1314-1322.	1.8	34
5	Distortions identification and compensation based on artificial neural networks using symmetrical components of the voltages and the currents. Electric Power Systems Research, 2009, 79, 1145-1154.	3.6	26
6	Comparative study of the reliability of MPPT algorithms for the crystalline silicon photovoltaic modules in variable weather conditions. Journal of Electrical Systems and Information Technology, 2017, 4, 213-224.	1.7	22
7	Simulation and dSPACE Hardware Implementation of an Improved Fractional Short-Circuit Current MPPT Algorithm for Photovoltaic System. Applied Solar Energy (English Translation of Geliotekhnika), 2021, 57, 93-106.	1.6	22
8	Fuzzy logic control of a SVC to improve the transient stability of ac power systems. , 2009, , .		19
9	Flatness-Based Control of DC-DC Converters Implemented in Successive Loops. Electric Power Components and Systems, 2018, 46, 673-687.	1.8	19
10	A novel robust PLL algorithm applied to the control of a shunt active power filter using a self tuning filter concept. , 2018, , .		16
11	Adaline-based approaches for time-varying frequency estimation in power systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 31-36.	0.4	15
12	Nonlinear H-infinity feedback control for asynchronous motors of electric trains. AIP Conference Proceedings, 2015, , .	0.4	15
13	Neural networks for phase and symmetrical components estimation in power systems. , 2009, , .		14
14	A three-phase hybrid active power filter with photovoltaic generation and hysteresis current control. , 2011, , .		12
15	Comparison of several neural network perturb and observe MPPT methods for photovoltaic applications. , 2018, , .		11
16	Artificial neural networks to control an inverter in a harmonic distortion compensation scheme. , 2008, , .		10
17	Harmonics Identification with Artificial Neural Networks: Application to Active Power Filtering. International Journal of Emerging Electric Power Systems, 2011, 12, .	0.8	10
18	A Comparative Experimental Study of Lossless Compression Algorithms for Enhancing Energy Efficiency in Smart Meters. , 2018, , .		10

#	ARTICLE	IF	CITATIONS
19	Nonlinear optimal control for wind power generators comprising a multi-mass drivetrain and a DFIG. Journal of the Franklin Institute, 2019, 356, 2582-2605.	3.4	10
20	Kalman filtering with a new state-space model for three-phase systems: Application to the identification of symmetrical components. , 2015, , .		9
21	Fuzzy logic-based instantaneous power ripple minimization for direct power control applied in a shunt active power filter. Electrical Engineering, 2020, 102, 1327-1338.	2.0	9
22	A Real-Time Data Analysis Platform for Short-Term Water Consumption Forecasting with Machine Learning. Forecasting, 2021, 3, 682-694.	2.8	9
23	Multiple self-organizing maps to facilitate the learning of visuo-motor correlations. , 0, , .		8
24	Online frequency estimation in power systems: A comparative study of adaptive methods. , 2014, , .		8
25	DPC Method For Grid Connected Photovoltaic System Acts as a Shunt Active Power Filter Implemented with Processor in the Loop. , 2018, , .		8
26	Nonlinear optimal control for autonomous navigation of a truck and trailer system. , 2017, , .		7
27	Water Consumption Analysis for Real-Time Leakage Detection in the Context of a Smart Tertiary Building. , 2018, , .		7
28	Nonlinear optimal control for the hot steel rolling mill system. IET Collaborative Intelligent Manufacturing, 2019, 1, 97-107.	3.3	7
29	Power harmonic identification and compensation with an artificial neural network method. , 2006, , .		6
30	Artificial neural networks for harmonic currents identification in active power filtering schemes. , 2008, , .		6
31	A new state-space for unbalanced three-phase systems: Application to fundamental frequency tracking with Kalman filtering. , 2016, , .		6
32	Nonlinear H-Infinity Control for Optimizing Cement Production. , 2018, , .		6
33	ADALINE based maximum power point tracking methods for stand-alone PV systems control. , 2018, , .		6
34	Genetic Algorithm Tuned PI Controller on PMSM Direct Torque Control. Algerian Journal of Renewable Energy and Sustainable Development, 2019, 01, 204-211.	0.4	6
35	Learning and adaptive techniques for harmonics compensation in power supply networks. , 2008, , .		5
36	A NEW METHOD FOR THE RE-IMPLEMENTATION OF THRESHOLD LOGIC FUNCTIONS WITH CELLULAR NEURAL NETWORKS. International Journal of Neural Systems, 2008, 18, 293-303.	5.2	5

#	ARTICLE	IF	CITATIONS
37	A comparative experimental study of neural and conventional controllers for an active power filter. , 2010, , .		5
38	Nonlinear optimal control for Synchronous Reluctance Machines. , 2017, , .		5
39	A Fuzzy Logic MPPT Algorithm with a PI Controller for a Standalone PV System under Variable Weather and Load Conditions. , 2018, , .		5
40	Nonlinear optimal control for the synchronization of biological neurons under time-delays. Cognitive Neurodynamics, 2019, 13, 89-103.	4.0	5
41	Direct Power Control of a Wind Turbine Based on Doubly Fed Induction Generator. European Journal of Electrical Engineering, 2019, 21, 457-464.	0.3	5
42	Artificial Neural Network Active Power Filter with Immunity in Distributed Generation. Periodica Polytechnica, Mechanical Engineering, 2020, 64, 109-119.	1.4	5
43	A nonlinear optimal control approach for underactuated power-line inspection robots. Robotica, 2022, 40, 1979-2009.	1.9	5
44	Fuzzy Control of the Permanent Magnet Synchronous Machine Singularly Perturbed Fed By a Three Level Inverter. Journal of Electrical Engineering, 2012, 63, 186-190.	0.7	4
45	An H-infinity approach to optimal control of doubly-fed reluctance machines. IFAC-PapersOnLine, 2016, 49, 116-122.	0.9	4
46	An adaptive neurofuzzy H-infinity control method for bioreactors and biofuels production. , 2017, , .		4
47	Optimization of olive-oil extraction using nonlinear H-infinity control. IFAC-PapersOnLine, 2018, 51, 439-444.	0.9	4
48	Predictive direct power control with virtual-flux estimation of three-phase PWM rectifiers under nonideal grid voltages. , 2018, , .		4
49	Voltage source inverter control with Adaline approach for the compensation of harmonic currents in electrical power systems. , 2008, , .		3
50	A fuzzy sliding mode controller for a vector controlled induction motor. , 2008, , .		3
51	Direct torque control based multi-level inverter and artificial neural networks of wind energy conversion system. , 2016, , .		3
52	A dedicated state space for power system modeling and frequency and unbalance estimation. Evolving Systems, 2018, 9, 57-69.	3.9	3
53	Energy efficiency optimization in fluid flow metering. , 2018, , .		3
54	A fast and robust reference current generation algorithm for three-phase shunt active power filter. International Journal of Power Electronics and Drive Systems, 2021, 12, 121.	0.6	3

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55	A New Quasi Open Loop Synchronization Technique for Grid-Connected Applications. Electrical, Control and Communication Engineering, 2021, 17, 47-58.	0.8	3
56	Artificial Neural Networks to Improve Current Harmonics Identification and Compensation. Advances in Civil and Industrial Engineering Book Series, 0, , 256-290.	0.2	3
57	Voltage Regulation Control with Adaptive Fuzzy Logic for a Stand-Alone Photovoltaic System. European Journal of Electrical Engineering, 2020, 22, 145-152.	0.3	3
58	Optimal currents based on Adalines to control a Permanent Magnet Synchronous Machine. , 2008, , .		2
59	Harmonic Elimination Control of an Inverter Based on an Artificial Neural Network Strategy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 25-30.	0.4	2
60	Adaptive linear learning for on-line harmonic identification: An overview with study cases. , 2013, , .		2
61	Nonlinear H-infinity control of multi-phase electric machines. IFAC-PapersOnLine, 2016, 49, 109-115.	0.9	2
62	A Nonlinear H-Infinity Approach to Optimal Control of PEM Fuel Cells. Intelligent Industrial Systems, 2017, 3, 43-58.	1.0	2
63	Flatness-based Adaptive Control of Synchronous Reluctance Machines with Output Feedback. , 2018, , .		2
64	Modular Learning Schemes for Visual Robot Control. Lecture Notes in Computer Science, 2005, , 333-348.	1.3	2
65	NeuroModule-based visual servoing of a robot arm with a 2 d.o.f. camera. , 0, , .		1
66	Robot vision tracking with a hierarchical CMAC controller. , 0, , .		1
67	A New Adaline Approach for Online Voltage Components Extraction from Unbalanced and Perturbed Power Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
68	Distortions Identification With Artificial Neural Networks Based on Symmetrical Components. , 2007, , .		1
69	Neuro-fuzzy control of a singularly perturbed permanent magnet synchronous machine fed by a three levels inverter. , 2008, , .		1
70	A new approach based on a linear Multi-Layer Perceptron for identifying on-line harmonics. , 2013, , .		1
71	Power grid higher-order harmonics estimation with multilayer perceptrons. AIP Conference Proceedings, 2015, , .	0.4	1
72	A Nonlinear H-Infinity Control Approach for Three-Phase Voltage Inverters. Intelligent Industrial Systems, 2017, 3, 129-142.	1.0	1

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73	A nonlinear optimal control method for bioreactors and biofuels production. , 2017, , .		1
74	A Nonlinear Optimal Control Approach for DFIG Wind Power Generators. , 2018, , .		1
75	A comparison of PLL for online frequency tracking in power grids. , 2021, , .		1
76	Bi-directional Modularity to Learn Visual Servoing Tasks. , 2006, , .		0
77	Adaptive neural schemes for the control of a shunt active power filter. , 2009, , .		0
78	A unique FPGA for the implementation of neural strategies for identifying harmonic distortions. , 2013, , .		0
79	A new state-space model for three-phase systems for Kalman filtering with application to power quality estimation. AIP Conference Proceedings, 2015, , .	0.4	0
80	Flatness-based adaptive fuzzy control for active power filters. , 2015, , .		0
81	A global linearization approach to control and state estimation of a VSC-HVDC system. , 2015, , .		0
82	Differential flatness properties and control of commodities price dynamics. , 2016, , .		0
83	Fault diagnosis in multi-machine power systems using the Derivative-free nonlinear Kalman Filter. , 2016, , .		0
84	Nonlinear optimal control for the VSC-HVDC transmission system. , 2017, , .		0
85	A Neural and Fuzzy Logic Based Control Scheme for a Shunt Active Power Filter. Lecture Notes in Electrical Engineering, 2017, , 201-211.	0.4	0
86	Control of Synchronous Reluctance Machines using Differential Flatness Theory. , 2018, , .		0
87	A New Learning and Fuzzy Strategy for Active Power Filtering. International Journal on Electrical Engineering and Informatics, 2016, 8, .	0.5	0
88	A New Control Stratum Applied to Two Adaptation Stages Based on Adaline-Type Neuronal Predictive Control in a Photovoltaic Solar Conversion Chain. European Journal of Electrical Engineering, 2020, 22, 365-376.	0.3	0
89	A Cascaded Pseudo Open Loop Synchronization Technique for Grid Connected Application. , 2021, , .		0