Mario R Arrieta Paternina

List of Publications by Year
in descending order

57 papers	675 citations	623734 14 h-index	610901 24 g-index
57 all docs	57 docs citations	57 times ranked	685 citing authors

#	Article	IF	Citations
1	Detection and classification of faults in transmission lines using the maximum wavelet singular value and Euclidean norm. IET Generation, Transmission and Distribution, 2015, 9, 2294-2302.	2.5	67
2	EEG-Rhythm Specific Taylorâ€“Fourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. IEEE Sensors Journal, 2020, 20, 6542-6551.	4.7	60
3	Identification of Electromechanical Modes Based on the Digital Taylor-Fourier Transform. IEEE Transactions on Power Systems, 2016, 31, 206-215.	6.5	52
4	Identification of electromechanical oscillatory modes based on variational mode decomposition. Electric Power Systems Research, 2019, 167, 71-85.	3.6	50
5	Automated detection of congestive heart failure from electrocardiogram signal using Stockwell transform and hybrid classification scheme. Computer Methods and Programs in Biomedicine, 2019, 173, 53-65.	4.7	49
6	Detection of Life Threatening Ventricular Arrhythmia Using Digital Taylor Fourier Transform. Frontiers in Physiology, 2018, 9, 722.	2.8	42
7	Detection of Atrial Fibrillation from Single Lead ECG Signal Using Multirate Cosine Filter Bank and Deep Neural Network. Journal of Medical Systems, 2020, 44, 114.	3.6	36
8	Fault detection and classification in transmission lines based on a PSD index. IET Generation, Transmission and Distribution, 2018, 12, 4070-4078.	2.5	27
9	AUTOMATED DETECTION OF ATRIAL FIBRILLATION ECG SIGNALS USING TWO STAGE VMD AND ATRIAL FIBRILLATION DIAGNOSIS INDEX. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740044.	0.7	25
10	Digital filter for phasor estimation applied to distance relays. IET Generation, Transmission and Distribution, 2015, 9, 1954-1963.	2.5	20
11	Distance Relays Based on the<?Pub _newline ?>Taylorâ€“Kalman-Fourier Filter. IEEE Transactions on Power Delivery, 2016, 31, 928-935.	4.3	19
12	Coordinated Optimal Volt/Var Control for Distribution Networks via D-PMUs and EV Chargers by Exploiting the Eigensystem Realization. IEEE Transactions on Smart Grid, 2021, 12, 2425-2438.	9.0	19
13	Multi-dimensional ringdown modal analysis by filtering. Electric Power Systems Research, 2017, 143, 748-759.	3.6	17
14	Identification of coherent trajectories by modal characteristics and hierarchical agglomerative clustering. Electric Power Systems Research, 2018, 158, 170-183.	3.6	16
15	Grid-Connected Three-Phase Inverter System with LCL Filter: Model, Control and Experimental Results. , 2019, , .		12
16	Assessing Synchrophasor Estimates of an Event Captured by a Phasor Measurement Unit. IEEE Transactions on Power Delivery, 2021, 36, 3109-3117.	4.3	12
17	Real-time Hardware-in-the-loop Implementation for Power Systems Protection. , 2018, , .		11
18	A hybrid optimization framework for the non-convex economic dispatch problem via meta-heuristic algorithms. Electric Power Systems Research, 2019, 177, 105999.	3.6	11

#	Article	IF	Citations
19	Inter-area Oscillation Control Based on Eigensystem Realization Approach. , 2018, , .		10
20	Taylorâ€“Fourier Filter-Bank Implemented With O-Splines for the Detection and Classification of Faults. IEEE Transactions on Industrial Informatics, 2021, 17, 3079-3089.	11.3	10
21	Fast hierarchical coordinated controller for distributed battery energy storage systems to mitigate voltage and frequency deviations. Applied Energy, 2022, 323, 119622.	10.1	10
22	Real-time implementation of the digital Taylorâ€“Fourier transform for identifying low frequency oscillations. Electric Power Systems Research, 2016, 140, 846-853.	3.6	9
23	Dynamic phasor-driven digital distance relays protection. Electric Power Systems Research, 2020, 184, 106316.	3.6	8
24	Unblocking function of distance relay during power swing based on modal analysis. , 2016, , .		7
25	Power System Coherency Detection From Wide-Area Measurements by Typicality-Based Data Analysis. IEEE Transactions on Power Systems, 2022, 37, 388-401.	6.5	7
26	On the Improvement of representative demand curves via a hierarchical agglomerative clustering for power transmission network investment. Energy, 2021, 222, 119989.	8.8	7
27	Wireless and Real-Time Photovoltaic Power Monitoring System. , 2018, , .		6
28	Model-based synchrophasor estimation by exploiting the eigensystem realization approach. Electric Power Systems Research, 2020, 182, 106249.	3.6	6
29	Power system coherency assessment by the affinity propagation algorithm and distance correlation. Sustainable Energy, Grids and Networks, 2022, 30, 100658.	3.9	6
30	Dynamic Equivalents by Modal Decomposition of Tie-Line Active Power Flows. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	5
31	Phasor, frequency and ROCOF measurements in microgrids: A practical approach. , 2017, , .		4
32	Modeling and Performance Analysis of 1-MW PV Farm for Varying Solar Irradiance Conditions. , 2018, , .		4
33	Two effective methods for impedance estimation in distance relays based on the DC offset removal. Electric Power Systems Research, 2021, 194, 107102.	3.6	4
34	Phasor estimation under transient conditions. , 2015, , .		3
35	A Matlab and PowerFactory-based WAMS Simulator. , 2019, , .		3
36	Dataâ€driven power system linear model identification for selective modal analysis by frequency interpolations. IET Generation, Transmission and Distribution, 2021, 15, 1107-1121.	2.5	3

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37	Light electric vehicle powertrain: Modeling, simulation, and experimentation for engineering students using PSIM. Computer Applications in Engineering Education, 2020, 28, 406-419.	3.4	3
38	Fault detection and classification in transmission line using the Euclidian Norm of the total WSE. , 2014, , .		2
39	Secondary voltage control areas through energy levels. , 2016, , .		2
40	A NEW METHOD FOR AUTOMATED DETECTION OF DIABETES FROM HEART RATE SIGNAL. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740001.	0.7	2
41	Real-time simulation of the Prony filter for identifying low frequency oscillations in short-time. , 2018, , .		2
42	On-line Coherency Analysis based on Sliding-Window Koopman Mode Decomposition. , 2021, , .		2
43	Examination of Wide Area Control Methods to Face Inter-Area Oscillations. , 2021, , .		2
44	Real-Time Phasor Estimation via the Taylor-Fourier's Subspace. , 2018, , .		1
45	Data-Driven Modal Features Extraction Through the Variational Mode Decomposition Method. , 2019, , .		1
46	Editorial: Machine Learning and Deep Learning for Physiological Signal Analysis. Frontiers in Physiology, 2022, 13, 887070.	2.8	1
47	Impedance estimation through the Taylor-Kalman-Fourier filter applied to distance relays. , 2014, , .		0
48	An effective method for impedance estimation in distance relay based on DC offset removal. , 2015, , .		0
49	Novel approaches for multi-channel ringdown analysis using digital filters. , 2016, , .		0
50	Model order reduction of large scale power system by modal decomposition. , 2016, , .		0
51	Identification of power system oscillations by a decentralized methodology. , 2017, , .		0
52	Synchrophasor Estimation Through An Eigensystem Realization Approach. , 2018, , .		0
53	Synchrophasor Estimation Through An Eigensystem Realization Approach. , 2018, , .		0
54	An Adaptable Hybrid Optimization Algorithm for Solving the Economic and Emission Dispatch Problem. , 2019, , .		0

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55	Bewleyâ€™s Lattice Diagram Implementation by using ATP/EMTP. IEEE Latin America Transactions, 2019, 17, 1458-1465.	1.6	0
56	Decongestion of Active Distribution Grids via D-PMUs-based Reactive Power Control and Electric Vehicle Chargers. , 2021, , 207-232.		0
57	Predictive Control-Based NADIR-Minimizing Algorithm for Solid-State Transformer. Energies, 2022, 15, 73.	3.1	0