

Joaquim Melndez Frigola

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

900

citations

12

h-index

29

g-index

79

ext. papers

1,143

ext. citations

3.8

avg. IF

4.47

L-index

#	Paper	IF	Citations
66	Lessons in urban monitoring taken from sustainable and livable cities to better address the Smart Cities initiative. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 611-622	9.5	236
65	Comparison of impedance based fault location methods for power distribution systems. <i>Electric Power Systems Research</i> , 2008 , 78, 657-666	3.5	190
64	Short-term load forecasting in a non-residential building contrasting models and attributes. <i>Energy and Buildings</i> , 2015 , 92, 322-330	7	112
63	Identifying services for short-term load forecasting using data driven models in a Smart City platform. <i>Sustainable Cities and Society</i> , 2017 , 28, 108-117	10.1	43
62	Short-term load forecasting for non-residential buildings contrasting artificial occupancy attributes. <i>Energy and Buildings</i> , 2016 , 130, 519-531	7	37
61	Optimal sizing of a Hybrid Renewable Energy System: Importance of data selection with highly variable renewable energy sources. <i>Energy Conversion and Management</i> , 2020 , 223, 113303	10.6	29
60	Petri net-based process monitoring: a workflow management system for process modelling and monitoring. <i>Journal of Intelligent Manufacturing</i> , 2014 , 25, 539-554	6.7	25
59	Transmission delays in residual computation. <i>IET Control Theory and Applications</i> , 2007 , 1, 1471-1476	2.5	21
58	Predicting aerodynamic instabilities in a blast furnace. <i>Engineering Applications of Artificial Intelligence</i> , 2006 , 19, 103-111	7.2	18
57	eXitCDSS: A framework for a workflow-based CBR for interventional Clinical Decision Support Systems and its application to TAVI. <i>Expert Systems With Applications</i> , 2014 , 41, 284-294	7.8	16
56	Principal Component Analysis for Monitoring Electrical Consumption of Academic Buildings. <i>Energy Procedia</i> , 2014 , 62, 555-564	2.3	13
55	Classification of sags gathered in distribution substations based on multiway principal component analysis. <i>Electric Power Systems Research</i> , 2009 , 79, 144-151	3.5	13
54	Multivariate statistical monitoring of buildings. Case study: Energy monitoring of a social housing building. <i>Energy and Buildings</i> , 2015 , 103, 338-351	7	9
53	N-dimensional extension of unfold-PCA for granular systems monitoring. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 71, 113-124	7.2	9
52	Evaluation of fault relative location algorithms using voltage sag data collected at 25-kV substations. <i>European Transactions on Electrical Power</i> , 2010 , 20, 34-51		9
51	Process diagnosis based on qualitative trend similarities using a sequence matching algorithm. <i>Journal of Process Control</i> , 2014 , 24, 1412-1424	3.9	8
50	Self-healing for smart grids: Problem formulation and considerations 2012 ,		7

49	A qualitative/quantitative representation of signals for supervision of continuous systems 1997 ,		6
48	Analysis of sequences of events for the characterisation of faults in power systems. <i>Electric Power Systems Research</i> , 2012 , 87, 22-30	3.5	5
47	Feature analysis and automatic classification of short-circuit faults resulting from external causes. <i>International Transactions on Electrical Energy Systems</i> , 2013 , 23, 510-525	2.2	5
46	Waveform segmentation for intelligent monitoring of power events. <i>Electric Power Systems Research</i> , 2012 , 93, 67-75	3.5	5
45	Opportunities and challenges for smart power restoration and reconfiguration smart decisions with smart grids 2011 ,		5
44	QSSI: A NEW SIMILARITY INDEX FOR QUALITATIVE TIME SERIES. APPLICATION TO CLASSIFY VOLTAGE SAGS. <i>Applied Artificial Intelligence</i> , 2011 , 25, 141-162	2.3	5
43	Extensive Events Database Development using ATP and Matlab to Fault Location in Power Distribution Systems 2006 ,		5
42	Case based reasoning methodology for supervision 2001 ,		5
41	A Qualitative Case-Based Approach for Situation Assessment in Dynamic Systems. Application in a Two Tank System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 669-674		4
40	Survey on knowledge based methods to assist fault restoration in power distribution networks. <i>Renewable Energy and Power Quality Journal</i> , 1257-1262		4
39	Extending a Fault Dictionary Towards a Case Based Reasoning System for Linear Electronic Analog Circuits Diagnosis. <i>Lecture Notes in Computer Science</i> , 2004 , 748-762	0.9	4
38	A comparison study on space-use analysis techniques and proposal of a novel method for determining space needs in public facilities. <i>Sustainable Cities and Society</i> , 2018 , 39, 326-334	10.1	3
37	2010 ,		3
36	Application for fault location in electrical power distribution systems 2007 ,		3
35	QUALITATIVE REPRESENTATION OF PROCESS TRENDS FOR SITUATION ASSESSMENT BASED ON CASES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 103-108		3
34	A family of FIR differentiators based on a polynomial least squares estimation 2001 ,		3
33	Integrated Unfold-PCA Monitoring Application for Smart Buildings: An AHU Application Example. <i>Energies</i> , 2021 , 14, 235	3.1	3
32	Atributos Relevantes para el Diagnóstico Automático de Eventos de Tensión en Redes de Distribución de Energía Eléctrica. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2013 , 10, 73-84	1.5	2

31	Service workflow monitoring through complex event processing 2010 ,		2
30	Feature characterization of power quality events according to their underlying causes 2010 ,		2
29	Classification of sags according to their origin based on the waveform similarity 2008 ,		2
28	A hybrid method for sag source location in power network 2007 ,		2
27	Multiway Principal Component Analysis (MPCA) for Upstream/Downstream Classification of Voltage Sags Gathered in Distribution Substations. <i>Studies in Computational Intelligence</i> , 2008 , 297-312	0.8	2
26	Subgroup Discovery for Weight Learning in Breast Cancer Diagnosis. <i>Lecture Notes in Computer Science</i> , 2009 , 360-364	0.9	2
25			2
24	Learning Complex Events from Sequences with Informed Gaps 2015 ,		1
23	Sequence pattern discovery of events caused by ground fault trips in power distribution systems 2010 ,		1
22	2010 ,		1
21	Feature analysis and classification methodology for overhead distribution fault events 2010 ,		1
20	Power quality assessment of the Bogotá distribution network focused on voltage sag analysis 2011		1
19	Probabilistic models to assist maintenance of multiple instruments 2009 ,		1
18	Unusual voltage sag event detection in power systems 2008 ,		1
17	A survey on voltage sag events in power systems 2008 ,		1
16	OFF LINE DIAGNOSIS OF ARIANE FLIGHTS USING PCA. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 704-708		1
15	Classification of Voltage Sags Based on MPCA Models. <i>Lecture Notes in Computer Science</i> , 2007 , 362-369	0.9	1
14	Case Base Management for Analog Circuits Diagnosis Improvement. <i>Lecture Notes in Computer Science</i> , 2003 , 437-451	0.9	1

13	Medical Equipment Maintenance Support with Service-Oriented Multi-agent Services. <i>Lecture Notes in Computer Science</i> , 2012 , 487-498	0.9	1
12	Decision Support Framework for Space-Use Efficiency and Arrangement of Public Services. <i>Journal of the Urban Planning and Development Division, ASCE</i> , 2020 , 146, 04019023	2.2	1
11	Fault detection and diagnosis web service module for energy monitoring in buildings. <i>IFAC-PapersOnLine</i> , 2018 , 51, 15-19	0.7	1
10	Flexibility management of electric vehicles based on user profiles: The Arnhem case study. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107195	5.1	1
9	FUTURA: Hybrid System for Electric Load Forecasting by Using Case-Based Reasoning and Expert System. <i>Lecture Notes in Computer Science</i> , 2002 , 125-138	0.9	1
8	Developing Novel Technologies and Services for Intelligent Low Voltage Electricity Grids: CostBenefit Analysis and Policy Implications. <i>Energies</i> , 2022 , 15, 94	3.1	1
7	Granularity determination of activated sludge through on-line profiles by means of case-based reasoning. <i>Water Science and Technology</i> , 2014 , 69, 760-7	2.2	
6	Minimising False Alarms Caused by Communication Delays in Networked Systems 2007 , 156-161		
5	INFLUENCE OF NETWORK DELAYS IN RESIDUAL COMPUTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 221-226		
4	CASE BASED APPROACH FOR SUPERVISION. APPLICATION TO PID CONTROLLERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 97-102		
3	Monitoring a Sequencing Batch Reactor for the Treatment of Wastewater by a Combination of Multivariate Statistical Process Control and a Classification Technique 2006 , 263-282		
2	Hybrid Approach Based on Temporal Representation and Classification Techniques Used to Determine Unstable Conditions in a Blast Furnace. <i>Lecture Notes in Computer Science</i> , 2004 , 404-414	0.9	
1	Low Voltage Grid Operation Scheduling Considering Forecast Uncertainty. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 493-502	0.4	