

# Joaquim Melndez Frigola

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1864744/joaquim-melendez-frigola-publications-by-year.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Developing Novel Technologies and Services for Intelligent Low Voltage Electricity Grids: CostBenefit Analysis and Policy Implications. <i>Energies</i> , <b>2022</b> , 15, 94	3.1	1
65	Integrated Unfold-PCA Monitoring Application for Smart Buildings: An AHU Application Example. <i>Energies</i> , <b>2021</b> , 14, 235	3.1	3
64	Flexibility management of electric vehicles based on user profiles: The Arnhem case study. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 133, 107195	5.1	1
63	Decision Support Framework for Space-Use Efficiency and Arrangement of Public Services. <i>Journal of the Urban Planning and Development Division, ASCE</i> , <b>2020</b> , 146, 04019023	2.2	1
62	Optimal sizing of a Hybrid Renewable Energy System: Importance of data selection with highly variable renewable energy sources. <i>Energy Conversion and Management</i> , <b>2020</b> , 223, 113303	10.6	29
61	Low Voltage Grid Operation Scheduling Considering Forecast Uncertainty. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 493-502	0.4	
60	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> , <b>2018</b> , 39, 326-334	10.1	3
59	N-dimensional extension of unfold-PCA for granular systems monitoring. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 71, 113-124	7.2	9
58	Fault detection and diagnosis web service module for energy monitoring in buildings. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 15-19	0.7	1
57	Identifying services for short-term load forecasting using data driven models in a Smart City platform. <i>Sustainable Cities and Society</i> , <b>2017</b> , 28, 108-117	10.1	43
56	Short-term load forecasting for non-residential buildings contrasting artificial occupancy attributes. <i>Energy and Buildings</i> , <b>2016</b> , 130, 519-531	7	37
55	Multivariate statistical monitoring of buildings. Case study: Energy monitoring of a social housing building. <i>Energy and Buildings</i> , <b>2015</b> , 103, 338-351	7	9
54	Lessons in urban monitoring taken from sustainable and livable cities to better address the Smart Cities initiative. <i>Technological Forecasting and Social Change</i> , <b>2015</b> , 90, 611-622	9.5	236
53	Short-term load forecasting in a non-residential building contrasting models and attributes. <i>Energy and Buildings</i> , <b>2015</b> , 92, 322-330	7	112
52	Learning Complex Events from Sequences with Informed Gaps <b>2015</b> ,		1
51	Principal Component Analysis for Monitoring Electrical Consumption of Academic Buildings. <i>Energy Procedia</i> , <b>2014</b> , 62, 555-564	2.3	13
50	Granularity determination of activated sludge through on-line profiles by means of case-based reasoning. <i>Water Science and Technology</i> , <b>2014</b> , 69, 760-7	2.2	

49	Process diagnosis based on qualitative trend similarities using a sequence matching algorithm. <i>Journal of Process Control</i> , <b>2014</b> , 24, 1412-1424	3.9	8
48	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> , <b>2014</b> , 41, 284-294	7.8	16
47	Petri net-based process monitoring: a workflow management system for process modelling and monitoring. <i>Journal of Intelligent Manufacturing</i> , <b>2014</b> , 25, 539-554	6.7	25
46	Feature analysis and automatic classification of short-circuit faults resulting from external causes. <i>International Transactions on Electrical Energy Systems</i> , <b>2013</b> , 23, 510-525	2.2	5
45	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> , <b>2013</b> , 10, 73-84	1.5	2
44	Analysis of sequences of events for the characterisation of faults in power systems. <i>Electric Power Systems Research</i> , <b>2012</b> , 87, 22-30	3.5	5
43	Self-healing for smart grids: Problem formulation and considerations <b>2012</b> ,		7
42	Waveform segmentation for intelligent monitoring of power events. <i>Electric Power Systems Research</i> , <b>2012</b> , 93, 67-75	3.5	5
41	Medical Equipment Maintenance Support with Service-Oriented Multi-agent Services. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 487-498	0.9	1
40	Opportunities and challenges for smart power restoration and reconfiguration smart decisions with smart grids <b>2011</b> ,		5
39	QSSI: A NEW SIMILARITY INDEX FOR QUALITATIVE TIME SERIES. APPLICATION TO CLASSIFY VOLTAGE SAGS. <i>Applied Artificial Intelligence</i> , <b>2011</b> , 25, 141-162	2.3	5
38	Power quality assessment of the Bogotá distribution network focused on voltage sag analysis <b>2011</b> ,		1
37	Sequence pattern discovery of events caused by ground fault trips in power distribution systems <b>2010</b> ,		1
36	Evaluation of fault relative location algorithms using voltage sag data collected at 25-kV substations. <i>European Transactions on Electrical Power</i> , <b>2010</b> , 20, 34-51		9
35	Service workflow monitoring through complex event processing <b>2010</b> ,		2
34	Feature characterization of power quality events according to their underlying causes <b>2010</b> ,		2
33	<b>2010</b> ,		1
32	<b>2010</b> ,		3

31	Feature analysis and classification methodology for overhead distribution fault events <b>2010</b> ,			1
30	Probabilistic models to assist maintenance of multiple instruments <b>2009</b> ,			1
29	Classification of sags gathered in distribution substations based on multiway principal component analysis. <i>Electric Power Systems Research</i> , <b>2009</b> , 79, 144-151	3.5		13
28	Subgroup Discovery for Weight Learning in Breast Cancer Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 360-364	0.9		2
27	Classification of sags according to their origin based on the waveform similarity <b>2008</b> ,			2
26	Unusual voltage sag event detection in power systems <b>2008</b> ,			1
25	A survey on voltage sag events in power systems <b>2008</b> ,			1
24	Comparison of impedance based fault location methods for power distribution systems. <i>Electric Power Systems Research</i> , <b>2008</b> , 78, 657-666	3.5		190
23	Multiway Principal Component Analysis (MPCA) for Upstream/Downstream Classification of Voltage Sags Gathered in Distribution Substations. <i>Studies in Computational Intelligence</i> , <b>2008</b> , 297-312	0.8		2
22	Application for fault location in electrical power distribution systems <b>2007</b> ,			3
21	Minimising False Alarms Caused by Communication Delays in Networked Systems <b>2007</b> , 156-161			
20	OFF LINE DIAGNOSIS OF ARIANE FLIGHTS USING PCA. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2007</b> , 40, 704-708			1
19	Transmission delays in residual computation. <i>IET Control Theory and Applications</i> , <b>2007</b> , 1, 1471-1476	2.5		21
18	A hybrid method for sag source location in power network <b>2007</b> ,			2
17	Classification of Voltage Sags Based on MPCA Models. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 362-369	0.9		1
16	Extensive Events Database Development using ATP and Matlab to Fault Location in Power Distribution Systems <b>2006</b> ,			5
15	Predicting aerodynamic instabilities in a blast furnace. <i>Engineering Applications of Artificial Intelligence</i> , <b>2006</b> , 19, 103-111	7.2		18
14	Monitoring a Sequencing Batch Reactor for the Treatment of Wastewater by a Combination of Multivariate Statistical Process Control and a Classification Technique <b>2006</b> , 263-282			

13	INFLUENCE OF NETWORK DELAYS IN RESIDUAL COMPUTATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 221-226		
12	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> , <b>2004</b> , 404-414	0.9	
11	Extending a Fault Dictionary Towards a Case Based Reasoning System for Linear Electronic Analog Circuits Diagnosis. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 748-762	0.9	4
10	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> , <b>2003</b> , 36, 669-674		4
9	Case Base Management for Analog Circuits Diagnosis Improvement. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 437-451	0.9	1
8	CASE BASED APPROACH FOR SUPERVISION. APPLICATION TO PID CONTROLLERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 97-102		
7	QUALITATIVE REPRESENTATION OF PROCESS TRENDS FOR SITUATION ASSESSMENT BASED ON CASES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 103-108		3
6	FUTURA: Hybrid System for Electric Load Forecasting by Using Case-Based Reasoning and Expert System. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 125-138	0.9	1
5	A family of FIR differentiators based on a polynomial least squares estimation <b>2001</b> ,		3
4	Case based reasoning methodology for supervision <b>2001</b> ,		5
3	A qualitative/quantitative representation of signals for supervision of continuous systems <b>1997</b> ,		6
2	Survey on knowledge based methods to assist fault restoration in power distribution networks. <i>Renewable Energy and Power Quality Journal</i> ,1257-1262		4
1			2