

Jos-Luis Casteleiro-Roca

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2270161/jose-luis-casteleiro-roca-publications-by-citations.pdf>

Version: 2024-04-26

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.

87
papers

728
citations

18
h-index

24
g-index

105
ext. papers

847
ext. citations

1.6
avg, IF

4.58
L-index

#	Paper	IF	Citations
87	A hybrid intelligent system for PID controller using in a steel rolling process. <i>Expert Systems With Applications</i> , 2013 , 40, 5188-5196	7.8	57
86	Modelling the hypnotic patient response in general anaesthesia using intelligent models. <i>Logic Journal of the IGPL</i> , 2019 , 27, 189-201	1	34
85	Hybrid Intelligent System to Perform Fault Detection on BIS Sensor During Surgeries. <i>Sensors</i> , 2017 , 17,	3.8	30
84	Bio-inspired model of ground temperature behavior on the horizontal geothermal exchanger of an installation based on a heat pump. <i>Neurocomputing</i> , 2015 , 150, 90-98	5.4	29
83	New approach for the QCM sensors characterization. <i>Sensors and Actuators A: Physical</i> , 2014 , 207, 1-9	3.9	29
82	A fault detection system based on unsupervised techniques for industrial control loops. <i>Expert Systems</i> , 2019 , 36, e12395	2.1	28
81	Detección de anomalías basada en técnicas inteligentes de una planta de obtención de material bicomponente empleado en la fabricación de palas de aerogenerador. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2020 , 17, 84	1.5	28
80	Power Cell SOC Modelling for Intelligent Virtual Sensor Implementation. <i>Journal of Sensors</i> , 2017 , 2017, 1-10	2	27
79	An intelligent fault detection system for a heat pump installation based on a geothermal heat exchanger. <i>Journal of Applied Logic</i> , 2016 , 17, 36-47		27
78	Hybrid Intelligent Model to Predict the SOC of a LFP Power Cell Type. <i>Lecture Notes in Computer Science</i> , 2014 , 561-572	0.9	27
77	Short-Term Energy Demand Forecast in Hotels Using Hybrid Intelligent Modeling. <i>Sensors</i> , 2019 , 19,	3.8	26
76	Sistema híbrido inteligente para la predicción de la tensión de una pila de combustible basada en hidrógeno. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2019 , 16, 492	1.5	26
75	Anomaly detection based on one-class intelligent techniques over a control level plant. <i>Logic Journal of the IGPL</i> , 2020 , 28, 502-518	1	26
74	Fuel Cell Output Current Prediction with a Hybrid Intelligent System. <i>Complexity</i> , 2019 , 2019, 1-10	1.6	25
73	A Fault Detection System for a Geothermal Heat Exchanger Sensor Based on Intelligent Techniques. <i>Sensors</i> , 2019 , 19,	3.8	21
72	A Novel Fuzzy Algorithm to Introduce New Variables in the Drug Supply Decision-Making Process in Medicine. <i>Complexity</i> , 2018 , 2018, 1-15	1.6	21
71	Modeling the Electromyogram (EMG) of Patients Undergoing Anesthesia During Surgery. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 273-283	0.4	19

70	Missing data imputation over academic records of electrical engineering students. <i>Logic Journal of the IGPL</i> , 2020 , 28, 487-501	1	19
69	A new method for anomaly detection based on non-convex boundaries with random two-dimensional projections. <i>Information Fusion</i> , 2021 , 65, 50-57	16.7	18
68	Modeling of Bicomponent Mixing System Used in the Manufacture of Wind Generator Blades. <i>Lecture Notes in Computer Science</i> , 2014 , 275-285	0.9	17
67	Lithium iron phosphate power cell fault detection system based on hybrid intelligent system. <i>Logic Journal of the IGPL</i> , 2020 , 28, 71-82	1	17
66	Comparative Study of Imputation Algorithms Applied to the Prediction of Student Performance. <i>Logic Journal of the IGPL</i> , 2020 , 28, 58-70	1	15
65	Hybrid model for the ANI index prediction using Remifentanil drug and EMG signal. <i>Neural Computing and Applications</i> , 2020 , 32, 1249-1258	4.8	13
64	Hybrid Intelligent Model for Fault Detection of a Lithium Iron Phosphate Power Cell Used in Electric Vehicles. <i>Lecture Notes in Computer Science</i> , 2016 , 751-762	0.9	12
63	Virtual Sensor for Fault Detection, Isolation and Data Recovery for Bicomponent Mixing Machine Monitoring. <i>Informatica</i> , 2019 , 30, 671-687	2.9	11
62	Attempts Prediction by Missing Data Imputation in Engineering Degree. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 167-176	0.4	11
61	An Intelligent Model to Predict ANI in Patients Undergoing General Anesthesia. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 492-501	0.4	11
60	PID-ITS: An Intelligent Tutoring System for PID Tuning Learning Process. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 726-735	0.4	7
59	Comparative Study of One-Class Based Anomaly Detection Techniques for a Bicomponent Mixing Machine Monitoring. <i>Cybernetics and Systems</i> , 2020 , 51, 649-667	1.9	7
58	Hybrid Intelligent Model to Predict the Remifentanil Infusion Rate in Patients Under General Anesthesia. <i>Logic Journal of the IGPL</i> , 2021 , 29, 193-206	1	7
57	A New Approach for System Malfunctioning over an Industrial System Control Loop Based on Unsupervised Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 415-425	0.4	6
56	Bioinspired Hybrid Model to Predict the Hydrogen Inlet Fuel Cell Flow Change of an Energy Storage System. <i>Processes</i> , 2019 , 7, 825	2.9	6
55	A One-class Classifier Based on a Hybrid Topology to Detect Faults in Power Cells. <i>Logic Journal of the IGPL</i> ,	1	6
54	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2276	2.6	5
53	Prediction of the Energy Demand of a Hotel Using an Artificial Intelligence-Based Model. <i>Lecture Notes in Computer Science</i> , 2018 , 586-596	0.9	5

52	Clustering Techniques Selection for a Hybrid Regression Model: A Case Study Based on a Solar Thermal System. <i>Cybernetics and Systems</i> ,1-20	1.9	5
51	A New Way to Improve Subject Selection in Engineering Degree Studies. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 533-545	0.4	4
50	A Machine Learning Based System for Analgesic Drug Delivery. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 461-470	0.4	3
49	An intelligent system for harmonic distortions detection in wind generator power electronic devices. <i>Neurocomputing</i> , 2021 , 456, 609-609	5.4	3
48	Outlier Generation and Anomaly Detection Based on Intelligent One-Class Techniques over a Bicomponent Mixing System. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 399-410	0.4	3
47	Remifentanil Dose Prediction for Patients During General Anesthesia. <i>Lecture Notes in Computer Science</i> , 2018 , 537-546	0.9	2
46	Diseño de controladores PID		2
45	Intelligent Model for Fault Detection on Geothermal Exchanger of a Heat Pump. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 237-247	0.4	2
44	Sensor Fault Detection and Recovery Methodology for a Geothermal Heat Exchanger. <i>Lecture Notes in Computer Science</i> , 2018 , 171-184	0.9	2
43	DESARROLLO DE UN SISTEMA EXPERTO PARA AYUDAR A LA VERIFICACIÓN DEL SISTEMA "TACAN". <i>Dyna (Spain)</i> , 2014 , 89, 112-121	0.4	2
42	Electromyogram prediction during anesthesia by using a hybrid intelligent model. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 4467-4476	3.7	2
41	A hybrid intelligent classifier for anomaly detection. <i>Neurocomputing</i> , 2021 , 452, 498-507	5.4	2
40	Hybrid Intelligent Modelling in Renewable Energy Sources-Based Microgrid. A Variable Estimation of the Hydrogen Subsystem Oriented to the Energy Management Strategy. <i>Sustainability</i> , 2020 , 12, 10566	3.6	1
39	Study of the effect of a geothermal heat exchanger over the ground 2013 ,		1
38	Intelligent One-Class Classifiers for the Development of an Intrusion Detection System: The MQTT Case Study. <i>Electronics (Switzerland)</i> , 2022 , 11, 422	2.6	1
37	Intelligent Expert System to Optimize the Quartz Crystal Microbalance (QCM) Characterization Test. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2017 , 469-488	0.4	1
36	Prediction of Student Performance Through an Intelligent Hybrid Model. <i>Lecture Notes in Computer Science</i> , 2019 , 710-721	0.9	1
35	Beta-Hebbian Learning for Visualizing Intrusions in Flows. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 446-459	0.4	1

34	Autoencoder Latent Space Influence on IoT MQTT Attack Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 279-286	0.9	1
33	Solar Thermal Collector Output Temperature Prediction by Hybrid Intelligent Model for Smartgrid and Smartbuildings Applications and Optimization. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4644	2.6	1
32	Fuel Cell Hybrid Model for Predicting Hydrogen Inflow through Energy Demand. <i>Electronics (Switzerland)</i> , 2019 , 8, 1325	2.6	1
31	Anomaly Detection on Patients Undergoing General Anesthesia. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 141-152	0.4	1
30	A hybrid one-class approach for detecting anomalies in industrial systems. <i>Expert Systems</i> ,	2.1	1
29	Data Collection Description for Evaluation and Analysis of Engineering Students Academic Performance. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 317-328	0.4	0
28	Intrusion Detection System for MQTT Protocol Based on Intelligent One-Class Classifiers. <i>Lecture Notes in Networks and Systems</i> , 2022 , 249-260	0.5	0
27	Bioclimatic House Heat Exchanger Behavior Prediction with Time Series Modeling. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 112-124	0.4	
26	A Solar Thermal System Temperature Prediction of a Smart Building for Data Recovery and Security Purposes. <i>Lecture Notes in Computer Science</i> , 2020 , 468-476	0.9	
25	Clustering Techniques Performance Analysis for a Solar Thermal Collector Hybrid Model Implementation. <i>Lecture Notes in Computer Science</i> , 2020 , 329-340	0.9	
24	A Fault Detection System for Power Cells During Capacity Confirmation Test Through a Global One-Class Classifier. <i>Lecture Notes in Computer Science</i> , 2020 , 477-484	0.9	
23	Anomaly Detection Over an Ultrasonic Sensor in an Industrial Plant. <i>Lecture Notes in Computer Science</i> , 2019 , 492-503	0.9	
22	A Global Classifier Implementation for Detecting Anomalies by Using One-Class Techniques over a Laboratory Plant. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 149-160	0.4	
21	An Energy Storage System. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020 , 337-356	0.4	
20	A Comparative Study to Detect Flowmeter Deviations Using One-Class Classifiers. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 66-75	0.4	
19	Comparative of Clustering Techniques for Academic Advice and Performance Measurement. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 215-226	0.4	
18	Comparative Analysis of Clustering Techniques for a Hybrid Model Implementation. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 355-365	0.4	
17	Hybrid Approximate Convex Hull One-Class Classifier for an Industrial Plant. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 282-292	0.4	

16	A Hybrid One-Class Topology for Non-convex Sets. <i>Lecture Notes in Computer Science</i> , 2020 , 341-349	0.9
15	Energy Management Strategies to Improve Electrical Networks Using Storage Systems. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2016 , 63-75	0.3
14	An Intelligent Model for Bispectral Index (BIS) in Patients Undergoing General Anesthesia. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 290-300	0.4
13	Energy Management Strategies to Improve Electrical Networks Using Storage Systems 2017 , 1500-1514	
12	Intelligent Model to Obtain Initial and Final Conduction Angle of a Diode in a Half Wave Rectifier with a Capacitor Filter. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 121-130	0.4
11	Student Performance Prediction Applying Missing Data Imputation in Electrical Engineering Studies Degree. <i>Lecture Notes in Computer Science</i> , 2016 , 126-135	0.9
10	Hybrid Model to Calculate the State of Charge of a Battery. <i>Lecture Notes in Computer Science</i> , 2021 , 379-390	0.9
9	Intelligent System for Switching Modes Detection and Classification of a Half-Bridge Buck Converter. <i>Lecture Notes in Networks and Systems</i> , 2022 , 229-239	0.5
8	Dimensional Reduction on an Intelligent Model for Efficiency Improvement of Switching Modes Detection. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 14-23	0.4
7	Beta Hebbian Learning for Intrusion Detection in Networks of IoT Devices. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 23-32	0.4
6	Detection of Denial of Service Attacks in an MQTT Environment Using a One-Class Approach. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 84-93	0.4
5	Longitudinal Study of Grades for the Industrial Electronics and Automation Engineering Degree Programme. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 295-304	0.4
4	Low Cost Three-Phase Motor Speed Control System Design for Educational Laboratory Practices. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 315-324	0.4
3	Virtual Implementation of Practical Control Subjects as an Alternative to Face-to-Face Laboratory Lessons. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 254-263	0.4
2	Hybrid Intelligent Model for Switching Modes Classification in a Half-Bridge Buck Converter. <i>Lecture Notes in Computer Science</i> , 2021 , 367-378	0.9
1	A Novel Proposal for Estimating PID Parameters Based on Centroids. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 532-541	0.2