

Jos-Luis Casteleiro-Roca

List of Publications by Year in Descending Order

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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.

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	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
86	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
85	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	
84	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	
83	Beta Hebbian Learning for Intrusion Detection in Networks of IoT Devices. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 23-32	0.4	
82	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	
81	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	
80	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	
79	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	
78	A Novel Proposal for Estimating PID Parameters Based on Centroids. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 532-541	0.2	
77	A Comparative Study to Detect Flowmeter Deviations Using One-Class Classifiers. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 66-75	0.4	
76	Comparative of Clustering Techniques for Academic Advice and Performance Measurement. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 215-226	0.4	
75	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
74	Comparative Analysis of Clustering Techniques for a Hybrid Model Implementation. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 355-365	0.4	
73	Hybrid Approximate Convex Hull One-Class Classifier for an Industrial Plant. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 282-292	0.4	
72	Beta-Hebbian Learning for Visualizing Intrusions in Flows. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 446-459	0.4	1
71	An intelligent system for harmonic distortions detection in wind generator power electronic devices. <i>Neurocomputing</i> , 2021 , 456, 609-609	5.4	3

70	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
69	Hybrid Intelligent Model to Predict the Remifentanyl Infusion Rate in Patients Under General Anesthesia. <i>Logic Journal of the IGPL</i> , 2021 , 29, 193-206	1	7
68	Hybrid Model to Calculate the State of Charge of a Battery. <i>Lecture Notes in Computer Science</i> , 2021 , 379-390	0.9	
67	A hybrid intelligent classifier for anomaly detection. <i>Neurocomputing</i> , 2021 , 452, 498-507	5.4	2
66	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	
65	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	2.6	1
64	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2276	2.6	5
63	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	
62	Clustering Techniques Performance Analysis for a Solar Thermal Collector Hybrid Model Implementation. <i>Lecture Notes in Computer Science</i> , 2020 , 329-340	0.9	
61	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	
60	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
59	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	
58	An Energy Storage System. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2020 , 337-356	0.4	
57	A Hybrid One-Class Topology for Non-convex Sets. <i>Lecture Notes in Computer Science</i> , 2020 , 341-349	0.9	
56	Autoencoder Latent Space Influence on IoT MQTT Attack Classification. <i>Lecture Notes in Computer Science</i> , 2020 , 279-286	0.9	1
55	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
54	Missing data imputation over academic records of electrical engineering students. <i>Logic Journal of the IGPL</i> , 2020 , 28, 487-501	1	19
53	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

52	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
51	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
50	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
49	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
48	Anomaly Detection on Patients Undergoing General Anesthesia. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 141-152	0.4	1
47	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
46	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
45	A Fault Detection System for a Geothermal Heat Exchanger Sensor Based on Intelligent Techniques. <i>Sensors</i> , 2019 , 19,	3.8	21
44	Modelling the hypnotic patient response in general anaesthesia using intelligent models. <i>Logic Journal of the IGPL</i> , 2019 , 27, 189-201	1	34
43	A fault detection system based on unsupervised techniques for industrial control loops. <i>Expert Systems</i> , 2019 , 36, e12395	2.1	28
42	Short-Term Energy Demand Forecast in Hotels Using Hybrid Intelligent Modeling. <i>Sensors</i> , 2019 , 19,	3.8	26
41	Virtual Sensor for Fault Detection, Isolation and Data Recovery for Bicomponent Mixing Machine Monitoring. <i>Informatica</i> , 2019 , 30, 671-687	2.9	11
40	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
39	Prediction of Student Performance Through an Intelligent Hybrid Model. <i>Lecture Notes in Computer Science</i> , 2019 , 710-721	0.9	1
38	Anomaly Detection Over an Ultrasonic Sensor in an Industrial Plant. <i>Lecture Notes in Computer Science</i> , 2019 , 492-503	0.9	
37	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
36	Fuel Cell Output Current Prediction with a Hybrid Intelligent System. <i>Complexity</i> , 2019 , 2019, 1-10	1.6	25
35	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

34	Fuel Cell Hybrid Model for Predicting Hydrogen Inflow through Energy Demand. <i>Electronics (Switzerland)</i> , 2019 , 8, 1325	2.6	1
33	Bioclimatic House Heat Exchanger Behavior Prediction with Time Series Modeling. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 112-124	0.4	
32	Remifentanyl Dose Prediction for Patients During General Anesthesia. <i>Lecture Notes in Computer Science</i> , 2018 , 537-546	0.9	2
31	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
30	Attempts Prediction by Missing Data Imputation in Engineering Degree. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 167-176	0.4	11
29	A Machine Learning Based System for Analgesic Drug Delivery. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 461-470	0.4	3
28	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
27	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
26	Sensor Fault Detection and Recovery Methodology for a Geothermal Heat Exchanger. <i>Lecture Notes in Computer Science</i> , 2018 , 171-184	0.9	2
25	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
24	Power Cell SOC Modelling for Intelligent Virtual Sensor Implementation. <i>Journal of Sensors</i> , 2017 , 2017, 1-10	2	27
23	Hybrid Intelligent System to Perform Fault Detection on BIS Sensor During Surgeries. <i>Sensors</i> , 2017 , 17,	3.8	30
22	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
21	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	
20	Energy Management Strategies to Improve Electrical Networks Using Storage Systems 2017 , 1500-1514		
19	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
18	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
17	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	

16	Student Performance Prediction Applying Missing Data Imputation in Electrical Engineering Studies Degree. <i>Lecture Notes in Computer Science</i> , 2016 , 126-135	0.9	
15	Modeling the Electromyogram (EMG) of Patients Undergoing Anesthesia During Surgery. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 273-283	0.4	19
14	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
13	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
12	New approach for the QCM sensors characterization. <i>Sensors and Actuators A: Physical</i> , 2014 , 207, 1-9	3.9	29
11	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
10	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
9	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
8	DESARROLLO DE UN SISTEMA EXPERTO PARA AYUDAR A LA VERIFICACIÓN DEL SISTEMA "TACAN". <i>Dyna (Spain)</i> , 2014 , 89, 112-121	0.4	2
7	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	
6	Study of the effect of a geothermal heat exchanger over the ground 2013 ,		1
5	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
4	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
3	Diseño de controladores PID		2
2	A One-class Classifier Based on a Hybrid Topology to Detect Faults in Power Cells. <i>Logic Journal of the IGPL</i> ,	1	6
1	A hybrid one-class approach for detecting anomalies in industrial systems. <i>Expert Systems</i> ,	2.1	1