Héctor Quintián

List of Publications by Year
in descending order

100 papers	741 citations	516710 16 h-index	580821 25 g-index
124 all docs	124 docs citations	124 times ranked	325 citing authors

#	Article	IF	Citations
1	A hybrid intelligent system for PID controller using in a steel rolling process. Expert Systems With Applications, 2013, 40, 5188-5196.	7.6	95
2	A Hybrid Regression System Based on Local Models for Solar Energy Prediction. Informatica, 2014, 25, 265-282.	2.7	45
3	Short-Term Energy Demand Forecast in Hotels Using Hybrid Intelligent Modeling. Sensors, 2019, 19, 2485.	3.8	35
4	Gaining deep knowledge of Android malware families through dimensionality reduction techniques. Logic Journal of the IGPL, 2019, 27, 160-176.	1.5	35
5	DetecciÃ³n de anomalÃas basada en tÃ©cnicas inteligentes de una planta de obtenciÃ³n de material bicomponente empleado en la fabricaciÃ³n de palas de aerogenerador. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 84.	1.0	35
6	A fault detection system based on unsupervised techniques for industrial control loops. Expert Systems, 2019, 36, e12395.	4.5	34
7	Anomaly detection based on one-class intelligent techniques over a control level plant. Logic Journal of the IGPL, 2020, 28, 502-518.	1.5	33
8	An intelligent fault detection system for a heat pump installation based on a geothermal heat exchanger. Journal of Applied Logic, 2016, 17, 36-47.	1.1	31
9	Beta Hebbian Learning as a New Method for Exploratory Projection Pursuit. International Journal of Neural Systems, 2017, 27, 1750024.	5.2	31
10	Simplified method based on an intelligent model to obtain the extinction angle of the current for a single-phase half wave controlled rectifier with resistive and inductive load. Journal of Applied Logic, 2015, 13, 37-47.	1.1	28
11	A new method for anomaly detection based on non-convex boundaries with random two-dimensional projections. Information Fusion, 2021, 65, 50-57.	19.1	25
12	Virtual Sensor for Fault Detection, Isolation and Data Recovery for Bicomponent Mixing Machine Monitoring. Informatica, 2019, 30, 671-687.	2.7	23
13	A Hybrid Intelligent System to forecast solar energy production. Computers and Electrical Engineering, 2019, 78, 373-387.	4.8	21
14	Beta Scale Invariant Map. Engineering Applications of Artificial Intelligence, 2017, 59, 218-235.	8.1	20
15	Missing data imputation over academic records of electrical engineering students. Logic Journal of the IGPL, 2020, 28, 487-501.	1.5	20
16	Lithium iron phosphate power cell fault detection system based on hybrid intelligent system. Logic Journal of the IGPL, 2020, 28, 71-82.	1.5	17
17	Hybrid Intelligent Model to Predict the Remifentanil Infusion Rate in Patients Under General Anesthesia. Logic Journal of the IGPL, 2021, 29, 193-206.	1.5	15
18	Hybrid Intelligent Model for Fault Detection of a Lithium Iron Phosphate Power Cell Used in Electric Vehicles. Lecture Notes in Computer Science, 2016, , 751-762.	1.3	13

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19	Hydrogen consumption prediction of a fuel cell based system with a hybrid intelligent approach. Energy, 2020, 205, 117986.	8.8	11
20	A One-class Classifier Based on a Hybrid Topology to Detect Faults in Power Cells. Logic Journal of the IGPL, 2022, 30, 679-694.	1.5	11
21	Intelligent One-Class Classifiers for the Development of an Intrusion Detection System: The MQTT Case Study. Electronics (Switzerland), 2022, 11, 422.	3.1	11
22	Comparative Study of One-Class Based Anomaly Detection Techniques for a Bicomponent Mixing Machine Monitoring. Cybernetics and Systems, 2020, 51, 649-667.	2.5	10
23	Intelligent model for active power prediction of a small wind turbine. Logic Journal of the IGPL, 0, , .	1.5	10
24	Prediction of the Energy Demand ofÂaÂHotel Using an Artificial Intelligence-Based Model. Lecture Notes in Computer Science, 2018, , 586-596.	1.3	8
25	Bioinspired Hybrid Model to Predict the Hydrogen Inlet Fuel Cell Flow Change of an Energy Storage System. Processes, 2019, 7, 825.	2.8	8
26	One-Class-Based Intelligent Classifier for Detecting Anomalous Situations During the Anesthetic Process. Logic Journal of the IGPL, 2022, 30, 326-341.	1.5	8
27	A novel method for anomaly detection using beta Hebbian learning and principal component analysis. Logic Journal of the IGPL, 2023, 31, 390-399.	1.5	8
28	Delving into Android Malware Families with a Novel Neural Projection Method. Complexity, 2019, 2019, 1-10.	1.6	7
29	Solar Thermal Collector Output Temperature Prediction by Hybrid Intelligent Model for Smartgrid and Smartbuildings Applications and Optimization. Applied Sciences (Switzerland), 2020, 10, 4644.	2.5	6
30	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. Applied Sciences (Switzerland), 2020, 10, 2276.	2.5	6
31	A New Approach for System Malfunctioning over an Industrial System Control Loop Based on Unsupervised Techniques. Advances in Intelligent Systems and Computing, 2019, , 415-425.	0.6	6
32	Clustering Techniques Selection for a Hybrid Regression Model: A Case Study Based on a Solar Thermal System. Cybernetics and Systems, 2023, 54, 286-305.	2.5	6
33	Hybrid Artificial Intelligent Systems. Lecture Notes in Computer Science, 2016, , .	1.3	5
34	Hybrid Artificial Intelligent Systems. Lecture Notes in Computer Science, 2017, , .	1.3	4
35	International Joint Conference SOCOâ€™13-CISISâ€™13-ICEUTEâ€™13. Advances in Intelligent Systems and Computing, 2014, , .	0.6	3
36	Outlier Generation and Anomaly Detection Based on Intelligent One-Class Techniques over a Bicomponent Mixing System. Advances in Intelligent Systems and Computing, 2020, , 399-410.	0.6	3

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37	HidrÃ³geno y su almacenamiento: el futuro de la energÃa elÃ©ctrica. , 0, , .		3
38	A Novel Hybrid Intelligent Classifier to Obtain the Controller Tuning Parameters for Temperature Control. Lecture Notes in Computer Science, 2012, , 677-689.	1.3	3
39	Advanced Visualization of Intrusions in Flows by Means of Beta-Hebbian Learning. Logic Journal of the IGPL, 2022, 30, 1056-1073.	1.5	3
40	A hybrid oneâ€class approach for detecting anomalies in industrial systems. Expert Systems, 0, , .	4.5	3
41	Remifentanil Dose Prediction for Patients During General Anesthesia. Lecture Notes in Computer Science, 2018, , 537-546.	1.3	2
42	Anomaly Detection on Patients Undergoing General Anesthesia. Advances in Intelligent Systems and Computing, 2020, , 141-152.	0.6	2
43	A Novel Ensemble Beta-Scale Invariant Map Algorithm. IEEE Access, 2020, 8, 108857-108884.	4.2	2
44	Beta-Hebbian Learning for Visualizing Intrusions in Flows. Advances in Intelligent Systems and Computing, 2021, , 446-459.	0.6	2
45	Intelligent Model for Fault Detection on Geothermal Exchanger of a Heat Pump. Advances in Intelligent Systems and Computing, 2014, , 237-247.	0.6	2
46	Intelligent Model to Obtain Current Extinction Angle for a Single Phase Half Wave Controlled Rectifier with Resistive and Inductive Load. Advances in Intelligent Systems and Computing, 2013, , 249-256.	0.6	2
47	A distributed topology for identifying anomalies in an industrial environment. Neural Computing and Applications, 2022, 34, 20463-20476.	5.6	2
48	Skills Development of Professional Ethics in Engineering Degrees in the European Higher Education Area. Advances in Intelligent Systems and Computing, 2017, , 736-740.	0.6	1
49	Hybrid Model to Calculate the State of Charge of a Battery. Lecture Notes in Computer Science, 2021, , 379-390.	1.3	1
50	Intrusion Detection System for MQTT Protocol Based on Intelligent One-Class Classifiers. Lecture Notes in Networks and Systems, 2022, , 249-260.	0.7	1
51	Deep Learning for House Categorisation, a Proposal Towards Automation in Land Registry. Lecture Notes in Computer Science, 2020, , 698-705.	1.3	1
52	Optimization of MLHL-SIM and SIM Algorithm Using OpenMP. Lecture Notes in Computer Science, 2016, , 227-236.	1.3	1
53	Prediction of Student Performance Through an Intelligent Hybrid Model. Lecture Notes in Computer Science, 2019, , 710-721.	1.3	1
54	A Comparative Study to Detect Flowmeter Deviations Using One-Class Classifiers. Advances in Intelligent Systems and Computing, 2021, , 66-75.	0.6	1

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55	Data Collection Description for Evaluation and Analysis of Engineering Students Academic Performance. Advances in Intelligent Systems and Computing, 2021, , 317-328.	0.6	1
56	Neuro-Knowledge Model Based on a PID Controller to Automatic Steering of Ships. , 0, , .		0
57	Editorial: Special Issue CISIS13-IGPL. Logic Journal of the IGPL, 2015, , jzv040.	1.5	0
58	Editorial: Special issue HAIS12-IGPL. Logic Journal of the IGPL, 2015, 23, 355-358.	1.5	0
59	Simplified method based on an intelligent model to obtain the extinction angle of the current for a single-phase half wave controlled rectifier with resistive and inductive load. Journal of Applied Logic, 2015, 13, 167.	1.1	0
60	Special issue HAIS 2012: Recent advancements in hybrid artificial intelligence systems and its application to real-world problems. Neurocomputing, 2015, 163, 1-2.	5.9	0
61	Editorial: Special issue CISIS12-IGPL. Logic Journal of the IGPL, 2015, 23, 1-3.	1.5	0
62	Editorial: Special Issue CISIS14-IGPL. Logic Journal of the IGPL, 2016, 24, 869-870.	1.5	0
63	SPECIAL ISSUE SOCO13-JAL. Journal of Applied Logic, 2016, 17, 1-3.	1.1	0
64	Recent advancements in hybrid artificial intelligence systems and its application to real-world problems. Neurocomputing, 2016, 176, 1-2.	5.9	0
65	Use of Support Vector Machines and Neural Networks to Assess Boar Sperm Viability. Advances in Intelligent Systems and Computing, 2017, , 13-19.	0.6	0
66	Editorial: Special Issue CISIS15-IGPL. Logic Journal of the IGPL, 2017, 25, 1-2.	1.5	0
67	Editorial: Special Issue HAIS15-IGPL. Logic Journal of the IGPL, 2017, 25, 859-861.	1.5	0
68	Editorial: Special issue SOCO 2016. Logic Journal of the IGPL, 2018, 26, 567-568.	1.5	0
69	Use of classifiers and recursive feature elimination to assess boar sperm viability. Logic Journal of the IGPL, 2018, , .	1.5	0
70	Multi-class Imbalanced Data Oversampling for Vertebral Column Pathologies Classification. Lecture Notes in Computer Science, 2018, , 131-142.	1.3	0
71	Editorial: Special issue CISIS 2016. Logic Journal of the IGPL, 2019, 27, 135-136.	1.5	0
72	Editorial: Special issue HAIS17-IGPL. Logic Journal of the IGPL, 2020, 28, 151-152.	1.5	0

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73	Editorial: Special issue HAIS19-IGPL. Logic Journal of the IGPL, 0, , .	1.5	0
74	USING COVID-19 FOR A TEACHING EXPERIENCE IN DESIGN THINKING IN ENGINEERING DEGREES. INTED Proceedings, 2021, , .	0.0	0
75	Editorial: Special issue HAIS 2018. Logic Journal of the IGPL, 2021, 29, 121-123.	1.5	0
76	ImplementaciÃ³n virtual de prÃ¡cticas de asignaturas de control como alternativa a las prÃ¡cticas de laboratorio presenciales. , 2021, , 259-268.		0
77	Beta Hebbian Learning for Intrusion Detection in Networks of IoT Devices. Advances in Intelligent Systems and Computing, 2022, , 23-32.	0.6	0
78	Detection of Denial of Service Attacks in an MQTT Environment Using a One-Class Approach. Advances in Intelligent Systems and Computing, 2022, , 84-93.	0.6	0
79	Advanced 3D Visualization of Android Malware Families. Advances in Intelligent Systems and Computing, 2022, , 167-177.	0.6	0
80	Low Cost Three-Phase Motor Speed Control System Design for Educational Laboratory Practices. Advances in Intelligent Systems and Computing, 2022, , 315-324.	0.6	0
81	Prediction of Dental Milling Time-Error by Flexible Neural Trees and Fuzzy Rules. Lecture Notes in Computer Science, 2012, , 842-849.	1.3	0
82	Application of Soft Computing Technologies toward Assessment and Skills Development. Advances in Intelligent Systems and Computing, 2013, , 299-310.	0.6	0
83	Soft Computing Techniques for Skills Assessment of Highly Qualified Personnel. Advances in Intelligent Systems and Computing, 2014, , 669-678.	0.6	0
84	Intelligent Model to Obtain Initial and Final Conduction Angle of a Diode in a Half Wave Rectifier with a Capacitor Filter. Advances in Intelligent Systems and Computing, 2014, , 121-130.	0.6	0
85	Modelling Dental Milling Process with Machine Learning-Based Regression Algorithms. Advances in Intelligent Systems and Computing, 2016, , 701-711.	0.6	0
86	Anomaly Detection Over an Ultrasonic Sensor in an Industrial Plant. Lecture Notes in Computer Science, 2019, , 492-503.	1.3	0
87	A Global Classifier Implementation for Detecting Anomalies by Using One-Class Techniques over a Laboratory Plant. Advances in Intelligent Systems and Computing, 2020, , 149-160.	0.6	0
88	An Energy Storage System. Advances in Environmental Engineering and Green Technologies Book Series, 2020, , 337-356.	0.4	0
89	Sistema hÃbrido para la predicciÃ³n del funcionamiento de una celda de combustible basada en hidrÃ³geno, empleada en el almacenamiento de energÃa. , 0, , .		0
90	Comparative Analysis of Clustering Techniques for a Hybrid Model Implementation. Advances in Intelligent Systems and Computing, 2021, , 355-365.	0.6	0

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91	Hybrid Approximate Convex Hull One-Class Classifier for an Industrial Plant. Advances in Intelligent Systems and Computing, 2021, , 282-292.	0.6	0
92	A Hybrid One-Class Topology for Non-convex Sets. Lecture Notes in Computer Science, 2020, , 341-349.	1.3	0
93	A Solar Thermal System Temperature Prediction of a Smart Building for Data Recovery and Security Purposes. Lecture Notes in Computer Science, 2020, , 468-476.	1.3	0
94	Clustering Techniques Performance Analysis for a Solar Thermal Collector Hybrid Model Implementation. Lecture Notes in Computer Science, 2020, , 329-340.	1.3	0
95	Detecting Performance Anomalies in the Multi-component Software a Collaborative Robot. Lecture Notes in Computer Science, 2020, , 533-540.	1.3	0
96	Sistema de prÃ¡cticas virtuales como alternativa al laboratorio presencial en asignaturas de IngenierÃa de Contro. , 2021, , .		0
97	Experiencia de docencia basada en proyectos usando la mÃºsica como elemento principal para la asignatura de Fundamentos de ElectrÃ³nica. , 0, , 191-206.		0
98	Correction to: Intrusion Detection System for MQTT Protocol Based on Intelligent One-Class Classifiers. Lecture Notes in Networks and Systems, 2022, , C1-C1.	0.7	0
99	Correction to: 14th International Conference on Computational Intelligence in Security for Information Systems and 12th International Conference on European Transnational Educational (CISIS) Tj ETQq1 1 0.784314 rgBT /O		0
100	CreaciÃ³n de laboratorios virtuales para asignaturas de control con Factory I/OÂ® y SimulinkÂ®. , 2022, , .		0