Juan Albino Mendez-Perez

List of Publications by Year
in descending order

62 papers	1,075 citations	331670 21 h-index	434195 31 g-index
65 all docs	65 docs citations	65 times ranked	718 citing authors

#	Article	IF	Citations
1	A distributed topology for identifying anomalies in an industrial environment. Neural Computing and Applications, 2022, 34, 20463-20476.	5.6	2
2	Machine learning techniques for computer-based decision systems in the operating theatre: application to analgesia delivery. Logic Journal of the IGPL, 2021, 29, 236-250.	1.5	15
3	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
4	An intelligent system for harmonic distortions detection in wind generator power electronic devices. Neurocomputing, 2021, 456, 609-621.	5.9	6
5	A hybrid intelligent classifier for anomaly detection. Neurocomputing, 2021, 452, 498-507.	5.9	4
6	A Comparative Study to Detect Flowmeter Deviations Using One-Class Classifiers. Advances in Intelligent Systems and Computing, 2021, , 66-75.	0.6	1
7	Anomaly Detection on Patients Undergoing General Anesthesia. Advances in Intelligent Systems and Computing, 2020, , 141-152.	0.6	2
8	Hybrid model for the ANI index prediction using Remifentanil drug and EMG signal. Neural Computing and Applications, 2020, 32, 1249-1258.	5.6	17
9	Special issue SOCO 2017: AI and ML applied to Health Sciences (MLHS). Neural Computing and Applications, 2020, 32, 1217-1218.	5.6	1
10	Electromyogram prediction during anesthesia by using a hybrid intelligent model. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 4467-4476.	4.9	4
11	An intelligent decision support system for production planning based on machine learning. Journal of Intelligent Manufacturing, 2020, 31, 1257-1273.	7.3	72
12	Network and Systems Medicine: Position Paper of the European Collaboration on Science and Technology Action on Open Multiscale Systems Medicine. Network and Systems Medicine, 2020, 3, 67-90.	2.5	18
13	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
14	Machine learning based method for the evaluation of the Analgesia Nociception Index in the assessment of general anesthesia. Computers in Biology and Medicine, 2020, 118, 103645.	7.0	11
15	Adaptive drug interaction model to predict depth of anesthesia in the operating room. Biomedical Signal Processing and Control, 2020, 59, 101931.	5.7	7
16	Detección de anomalías basada en técnicas inteligentes de una planta de obtención de material bicomponente empleado en la fabricación de palas de aerogenerador. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 84.	1.0	35
17	A Hybrid One-Class Topology for Non-convex Sets. Lecture Notes in Computer Science, 2020, , 341-349.	1.3	0
18	Short-Term Energy Demand Forecast in Hotels Using Hybrid Intelligent Modeling. Sensors, 2019, 19, 2485.	3.8	35

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19	A fault detection system based on unsupervised techniques for industrial control loops. Expert Systems, 2019, 36, e12395.	4.5	34
20	Inferring Knowledge from Clinical Data for Anesthesia Automation. Lecture Notes in Computer Science, 2019, , 480-491.	1.3	1
21	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
22	Anomaly Detection Over an Ultrasonic Sensor in an Industrial Plant. Lecture Notes in Computer Science, 2019, , 492-503.	1.3	0
23	Improving the anesthetic process by a fuzzy rule based medical decision system. Artificial Intelligence in Medicine, 2018, 84, 159-170.	6.5	51
24	A Novel Fuzzy Algorithm to Introduce New Variables in the Drug Supply Decision-Making Process in Medicine. Complexity, 2018, 2018, 1-15.	1.6	27
25	Remifentanil Dose Prediction for Patients During General Anesthesia. Lecture Notes in Computer Science, 2018, , 537-546.	1.3	2
26	Prediction of the Energy Demand ofÂaÂHotel Using an Artificial Intelligence-Based Model. Lecture Notes in Computer Science, 2018, , 586-596.	1.3	8
27	A Machine Learning Based System for Analgesic Drug Delivery. Advances in Intelligent Systems and Computing, 2018, , 461-470.	0.6	6
28	An Intelligent Model to Predict ANI in Patients Undergoing General Anesthesia. Advances in Intelligent Systems and Computing, 2018, , 492-501.	0.6	12
29	Adaptive fuzzy modeling of the hypnotic process in anesthesia. Journal of Clinical Monitoring and Computing, 2017, 31, 319-330.	1.6	32
30	Power Cell SOC Modelling for Intelligent Virtual Sensor Implementation. Journal of Sensors, 2017, 2017, 1-10.	1.1	32
31	Hybrid Intelligent System to Perform Fault Detection on BIS Sensor During Surgeries. Sensors, 2017, 17, 179.	3.8	32
32	Intelligent Expert System to Optimize the Quartz Crystal Microbalance (QCM) Characterization Test. Advances in Computational Intelligence and Robotics Book Series, 2017, , 469-488.	0.4	1
33	An Intelligent Model for Bispectral Index (BIS) in Patients Undergoing General Anesthesia. Advances in Intelligent Systems and Computing, 2017, , 290-300.	0.6	0
34	Adaptive pharmacokinetic and pharmacodynamic modelling to predict propofol effect using BIS-guided anesthesia. Computers in Biology and Medicine, 2016, 75, 173-180.	7.0	17
35	Adaptive fuzzy predictive controller for anesthesia delivery. Control Engineering Practice, 2016, 46, 1-9.	5.5	39
36	A control system proposal for engineering education. Computers and Education, 2013, 68, 266-274.	8.3	7

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37	ACLAC: An approach for adaptive closed-loop anesthesia control. , 2013, , .		3
38	Modelling propofol pharmacodynamics using BIS-guided anaesthesia. Anaesthesia, 2013, 68, 1132-1140.	3.8	26
39	Design and implementation of a closedâ€loop control system for infusion of propofol guided by bispectral index (<scp>BIS</scp>). Acta Anaesthesiologica Scandinavica, 2012, 56, 1032-1041.	1.6	25
40	Implementing Motivational Features in Reactive Blended Learning: Application to an Introductory Control Engineering Course. IEEE Transactions on Education, 2011, 54, 619-627.	2.4	29
41	Predictive algorithm for intravenous anesthesia control. , 2010, , .		0
42	A reactive blended learning proposal for an introductory control engineering course. Computers and Education, 2010, 54, 856-865.	8.3	31
43	Adaptive computer control of anesthesia in humans. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 727-734.	1.6	33
44	Model-based controller for anesthesia automation. , 2009, , .		4
45	Dead-time compensation in intravenous anesthesia control. , 2008, , .		0
46	Intelligent Agents and Apache Cocoon for a CV Generation System. , 2007, , .		1
47	On improving the performance in robust controllers for robot manipulators with parametric disturbances. Control Engineering Practice, 2007, 15, 557-566.	5.5	13
48	A web-based tool for control engineering teaching. Computer Applications in Engineering Education, 2006, 14, 178-187.	3.4	41
49	Design And Implementation of a Navigation System for a Low-Cost Electric Vehicle. , 2006, , .		0
50	A Guidance System for an Electric Vehicle in Non-Structured Roads. , 2006, , .		0
51	Ping-Pong player prototype - A pc-based, low-cost, ping-pong robot. IEEE Robotics and Automation Magazine, 2003, 10, 44-52.	2.0	96
52	Obstacle avoidance for a mobile robot: A neuro-fuzzy approach. Fuzzy Sets and Systems, 2001, 124, 171-179.	2.7	66
53	Obstacle Avoidance Using the Human Operator Experience for a Mobile Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2000, 27, 305-319.	3.4	11
54	A Set of Control Experiments on an Overhead Crane Prototype. International Journal of Electrical Engineering and Education, 1999, 36, 204-221.	0.8	3

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55	A robotic system based on neural network controllers. Advanced Engineering Informatics, 1999, 13, 393-398.	0.5	18
56	On the Design and Implementation of a Neuromorphic Self-Tuning Controller. Neural Processing Letters, 1999, 9, 229-242.	3.2	8
57	An Application of a Neural Self-Tuning Controller to an Overhead Crane. Neural Computing and Applications, 1999, 8, 143-150.	5.6	25
58	A self-tuning neuromorphic controller: application to the crane problem. Control Engineering Practice, 1998, 6, 1475-1483.	5.5	27
59	Stochastic optimal controllers for a DC servo motor: Applicability and performance. Control Engineering Practice, 1996, 4, 757-764.	5.5	4
60	Experiments on A D.C. Motor Based System for a Digital Control Course. International Journal of Electrical Engineering and Education, 1995, 32, 163-178.	0.8	4
61	Dynamic programming approach for nonlinear systems. IET Control Theory and Applications, 1994, 141, 409-417.	1.7	4
62	Las Universidades y la implementaciÃ³n de la Agenda 2030. Aportaciones desde La Universidad de La Laguna. , 0, , .		0