Pedro Ponce

List of Publications by Year
in descending order

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109	1,157	471061	500791
papers	citations	17	28
		h-index	g-index

110	110	110	927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sensing, smart and sustainable technologies for Agri-Food 4.0. Computers in Industry, 2019, 108, 21-36.	5.7	177
2	Real-time hardware ANN-QFT robust controller for reconfigurable micro-machine tool. International Journal of Advanced Manufacturing Technology, 2015, 79, 1-20.	1.5	41
3	End user perceptions toward smart grid technology: Acceptance, adoption, risks, and trust. Renewable and Sustainable Energy Reviews, 2016, 60, 587-598.	8.2	41
4	Tailored gamification and serious game framework based on fuzzy logic for saving energy in connected thermostats. Journal of Cleaner Production, 2020, 262, 121167.	4.6	41
5	Adaptive noise filtering based on artificial hydrocarbon networks: An application to audio signals. Expert Systems With Applications, 2014, 41, 6512-6523.	4.4	35
6	Overview of Real-Time Simulation as a Supporting Effort to Smart-Grid Attainment. Energies, 2017, 10, 817.	1.6	34
7	Artificial Organic Networks. , 2011, , .		28
8	The development of an artificial organic networks toolkit for LabVIEW. Journal of Computational Chemistry, 2015, 36, 478-492.	1.5	25
9	A novel robust liquid level controller for coupled-tanks systems using artificial hydrocarbon networks. Expert Systems With Applications, 2015, 42, 8858-8867.	4.4	25
10	Doubly fed induction generator (DFIG) wind turbine controlled by artificial organic networks. Soft Computing, 2018, 22, 2867-2879.	2.1	25
11	Design Framework Based on TEC21 Educational Model and Education 4.0 Implemented in a Capstone Project: A Case Study of an Electric Vehicle Suspension System. Sustainability, 2021, 13, 5768.	1.6	24
12	Artificial Hydrocarbon Networks Fuzzy Inference System. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	23
13	Automation Pyramid as Constructor for a Complete Digital Twin, Case Study: A Didactic Manufacturing System. Sensors, 2021, 21, 4656.	2.1	23
14	Artificial hydrocarbon networks fuzzy inference systems for CNC machines position controller. International Journal of Advanced Manufacturing Technology, 2014, 72, 1465-1479.	1.5	22
15	Framework for communicating with consumers using an expectation interface in smart thermostats. Energy and Buildings, 2017, 145, 44-56.	3.1	22
16	A Novel Fuzzy-PSO Controller for Increasing the Lifetime in Power Electronics Stage for Brushless DC Drives. IEEE Access, 2019, 7, 47841-47855.	2.6	20
17	The Next Generation of Social Products Based on Sensing, Smart and Sustainable (S3) Features: A Smart Thermostat as Case Study. IFAC-PapersOnLine, 2019, 52, 2390-2395.	0.5	19
18	Multi-sensor System, Gamification, and Artificial Intelligence for Benefit Elderly People. Studies in Systems, Decision and Control, 2020, , 207-235.	0.8	19

#	Article	IF	Citations
19	Energy Management System Based on a Gamified Application for Households. Energies, 2021, 14, 3445.	1.6	18
20	Using Deep Learning in Real-Time for Clothing Classification with Connected Thermostats. Energies, 2022, 15, 1811.	1.6	18
21	Improving education in developing countries using robotic platforms. International Journal on Interactive Design and Manufacturing, 2019, 13, 1401-1422.	1.3	16
22	Improved MPPT Algorithm for Photovoltaic Systems Based on the Earthquake Optimization Algorithm. Energies, 2020, 13, 3047.	1.6	16
23	Design based on fuzzy signal detection theory for a semi-autonomous assisting robot in children autism therapy. Computers in Human Behavior, 2016, 55, 28-42.	5.1	15
24	Empowering saving energy at home through serious games on thermostat interfaces. Energy and Buildings, 2022, 263, 112026.	3.1	15
25	Robotic platform for teaching maths in junior high school. International Journal on Interactive Design and Manufacturing, 2018, 12, 1349-1360.	1.3	13
26	Model and Control for Coupled Tanks Using Labview. , 2013, , .		12
27	Novel Design Methodology for DC-DC Converters Applying Metaheuristic Optimization for Inductance Selection. Applied Sciences (Switzerland), 2020, 10, 4377.	1.3	12
28	Empower saving energy into smart homes using a gamification structure by social products. , 2020, , .		12
29	Hardware implementation of metaheuristics through LabVIEW FPGA. Applied Soft Computing Journal, 2021, 113, 107908.	4.1	12
30	Towards Sustainability of Protected Agriculture: Automatic Control and Structural Technologies Integration of an Intelligent Greenhouse. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 366-371.	0.4	11
31	Type-2 Fuzzy membership function design method through a piecewise-linear approach. Expert Systems With Applications, 2015, 42, 7530-7540.	4.4	11
32	Education 4.0: Teaching the Basics of KNN, LDA and Simple Perceptron Algorithms for Binary Classification Problems. Future Internet, 2021, 13, 193.	2.4	11
33	Smart Homes as Enablers for Depression Pre-Diagnosis Using PHQ-9 on HMI through Fuzzy Logic Decision System. Sensors, 2021, 21, 7864.	2.1	11
34	Mobile Phone Usage Detection by ANN Trained with a Metaheuristic Algorithm â€. Sensors, 2019, 19, 3110.	2.1	10
35	How to develop research skills among undergraduate engineering students to tackle current ongoing topics? A Smart-Grid case study. International Journal of Electrical Engineering and Education, 2021, 58, 113-141.	0.4	10
36	Role Assignment Analysis of an Assistive Robotic Platform in a High School Mathematics Class, Through a Gamification and Usability Evaluation. International Journal of Social Robotics, 2021, 13, 1063-1078.	3.1	10

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37	Usability perceptions and beliefs about smart thermostats by chi-square test, signal detection theory, and fuzzy detection theory in regions of Mexico. Frontiers in Energy, 2019, 13, 522-538.	1.2	9
38	Enabling Systems for Intelligent Manufacturing in Industry 4.0. , 2021, , .		9
39	S4 Product Design Framework: A Gamification Strategy Based on Type 1 and 2 Fuzzy Logic. Lecture Notes in Computer Science, 2020, , 509-524.	1.0	9
40	Experimental Fuzzy Logic Controller Type 2 for a Quadrotor Optimized by ANFIS. IFAC-PapersOnLine, 2015, 48, 2435-2441.	0.5	8
41	Robust control for buck voltage converter under resistive and inductive varying load. , 2016, , .		8
42	ANFIS and MPC controllers for a reconfigurable lower limb exoskeleton. Soft Computing, 2017, 21, 571-584.	2.1	8
43	Framework for promoting social interaction and physical activity in elderly people using gamification and fuzzy logic strategy. , 2019, , .		8
44	Social creation networks for designing low income interfaces in programmable thermostats. Technology in Society, 2020, 62, 101299.	4.8	8
45	A Gamified HMI as a Response for Implementing a Smart-Sustainable University Campus. IFIP Advances in Information and Communication Technology, 2021, , 683-691.	0.5	8
46	S4 Features and Artificial Intelligence for Designing a Robot against COVID-19â€"Robocov. Future Internet, 2022, 14, 22.	2.4	8
47	Alternative Classification Techniques for Brain-Computer Interfaces for Smart Sensor Manufacturing Environments. IFAC-PapersOnLine, 2015, 48, 680-685.	0.5	7
48	Interval Type 2 Fuzzy Logic Controller for Rotor Voltage of a Doubly-Fed Induction Generator and Pitch Angle of Wind Turbine Blades. IFAC-PapersOnLine, 2015, 48, 2195-2202.	0.5	7
49	Experiences in interactive collaborative learning using an open innovation laboratory: The design methodologies course as case study. , 2017, , .		7
50	YouTube Videos in the Virtual Flipped Classroom Model Using Brain Signals and Facial Expressions. Future Internet, 2021, 13, 224.	2.4	7
51	A Supervised Adaptive Neuro-Fuzzy Inference System controller for a Hybrid Electric Vehicle's power train system. , 2011, , .		6
52	Integrated Intelligent Control and Fault System for Wind Generators. Intelligent Automation and Soft Computing, 2013, 19, 373-389.	1.6	6
53	Simulation to Implementation as Good Practices for Teaching Power Electronics to Undergraduate Students: Fuzzy Sliding Mode Control for DC Motors. Advances in Power Electronics, 2014, 2014, 1-9.	0.8	6
54	Experimental study for FPGA PID position controller in CNC micro-machines. IFAC-PapersOnLine, 2015, 48, 2203-2207.	0.5	6

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55	Technology transfer motivation analysis based on fuzzy type 2 signal detection theory. AI and Society, 2016, 31, 245-257.	3.1	6
56	Open Innovation Laboratory for Rapid Realisation of Sensing, Smart and Sustainable Products: Motives, Concepts and Uses in Higher Education. IFIP Advances in Information and Communication Technology, 2018, , 156-163.	0.5	6
57	Real-Time Power Electronics Laboratory to Strengthen Distance Learning Engineering Education on Smart Grids and Microgrids. Future Internet, 2021, 13, 237.	2.4	6
58	A Model Using Artificial Neural Networks and Fuzzy Logic for Knowing the Consumer on Smart Thermostats as a S3 Product. Lecture Notes in Computer Science, 2019, , 430-439.	1.0	6
59	Use of Robotic Platforms as a Tool to Support STEM and Physical Education in Developed Countries: A Descriptive Analysis. Sensors, 2022, 22, 1037.	2.1	6
60	A Novel Speed Control for DC Motors: Sliding Mode Control, Fuzzy Inference System, Neural Networks and Genetic Algorithms. , 2012, , .		5
61	Robust QFT-based control of DTC-speed loop of an induction motor under different load conditionsÃ•. IFAC-PapersOnLine, 2015, 48, 2429-2434.	0.5	5
62	Sensing, Smart and Sustainable Products to Support Health and Well-Being in Communities. , 2018, , .		5
63	Open innovation laboratory in electrical energy education based on the knowledge economy. International Journal of Electrical Engineering and Education, 2019, , 002072091982971.	0.4	5
64	Designing a Robust Controller Using SMC and Fuzzy Artificial Organic Networks for Brushed DC Motors. Energies, 2020, 13, 3091.	1.6	5
65	Designing a Consumer Framework for Social Products Within a Gamified Smart Home Context. Lecture Notes in Computer Science, 2021, , 429-443.	1.0	5
66	Improving the attention span of elementary school children for physical education through an NAO robotics platform in developed countries. International Journal on Interactive Design and Manufacturing, 2022, 16, 657-675.	1.3	5
67	Intelligent Wheelchair and Virtual Training by LabVIEW. Lecture Notes in Computer Science, 2010, , 422-435.	1.0	4
68	Fuzzy C-Means Clustering Technique Applied for Modeling Parameters of an Intelligent Greenhouse Open Control System. , 2011, , .		4
69	RoboTICs: Implementation of a Robotic Assistive Platform in a Mathematics High School Class. , 2019, , .		4
70	A Novel Design of Virtual Laboratory. , 2019, , .		4
71	Adaptive SMC based on the dynamic containment of the sliding variable. Journal of the Franklin Institute, 2021, 358, 1422-1447.	1.9	4
72	S3 manufacturing process taxonomy. Journal of Manufacturing Processes, 2021, 67, 579-610.	2.8	4

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73	Education 4.0: Teaching the Basis of Motor Imagery Classification Algorithms for Brain-Computer Interfaces. Future Internet, 2021, 13, 202.	2.4	4
74	A Decentralized Passive Islanding Detection Method Based on the Variations of Estimated Droop Characteristics. Energies, 2021, 14, 7759.	1.6	4
75	A novel neuro-fuzzy controller genetically enhanced using LabVIEW. , 2008, , .		3
76	A new approach to uncertainty description through accomplishment membership functions. Expert Systems With Applications, 2015, 42, 7895-7904.	4.4	3
77	Swarm-Based Nature-Inspired Algorithm and Genetic Algorithms for Optimizing a Sun Tracker Trajectory. Applied Artificial Intelligence, 2016, 30, 97-124.	2.0	3
78	Fuzzy Logic Type 1 and 2 for Social Robots and Apps for Children with Autism. , 2017, , .		3
79	A Non-Adaptive Single-Phase PLL Based on Discrete Half-Band Filtering to Suppress Severe Frequency Disturbances. Energies, 2020, 13, 1730.	1.6	3
80	Smart City Concept Based on Cyber-Physical Social Systems with Hierarchical Ethical Agents Approach. Lecture Notes in Computer Science, 2021, , 424-437.	1.0	3
81	Simulation Framework for Load Management and Behavioral Energy Efficiency Analysis in Smart Homes. Lecture Notes in Computer Science, 2020, , 497-508.	1.0	3
82	Neural Networks Based on TrigonometricSeries for the Control of a Robot. , 2006, , .		2
83	Real Time Simulation for DC and AC Motors Based on LabVIEW FPGAs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1777-1784.	0.4	2
84	Neural network and fuzzy logic in a speed close loop for DTC induction motors. , 2014, , .		2
85	Towards a Reconfigurable Inferior Limbs Exoskeleton for Assistive, Rehabilitation, and Empowering Application. IFAC-PapersOnLine, 2015, 48, 1496-1501.	0.5	2
86	Research Skills Enhancement through a Research-Based Wit-Learning Methodology. , 2019, , .		2
87	A Robust Control Scheme for Renewable-Based Distributed Generators Using Artificial Hydrocarbon Networks. Energies, 2019, 12, 1896.	1.6	2
88	Learning perceptions of Smart Grid class with laboratory for undergraduate students. International Journal on Interactive Design and Manufacturing, 2019, 13, 1423-1439.	1.3	2
89	Smart Cities Using Social Cyber-Physical Systems Driven by Education. , 2021, , .		2
90	Electric Vehicle Powertrain Control with Fuzzy Indirect Vector Control. , 2012, , .		1

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91	Real time systems for teaching induction motor drives. , 2012, , .		1
92	Grid-side inverter thermal cycling analysis of 1.6 MW Doubly-Fed Induction Generation wind turbine and life-time estimation. , 2016, , .		1
93	A new configuration of 2 electromagnetic power generators for mechanical energy conversion by spinning a ferrite magnet in flat form. International Journal of Energy Research, 2018, 42, 1262-1276.	2.2	1
94	Sensing, Smart and Sustainable Systems Theory. , 2021, , 1-27.		1
95	Differentiated Teaching Based on Standardized Metrics Integrating Fuzzy Logic Type 2 Detection Theory: High School Caseâ€"PrepaTec, Mexico. Future Internet, 2021, 13, 98.	2.4	1
96	Micro-grid an Integral Approach to Long-Term Sustainability. Strategies for Sustainability, 2022, , 181-212.	0.2	1
97	Implementing Robotic Platforms for Therapies Using Qualitative Factors in Mexico. Lecture Notes in Computer Science, 2020, , 123-131.	1.0	1
98	DFT-based Phasor Estimator using a MAF with a Phase-Lead Compensator. , 2021, , .		1
99	Applications of Fuzzy Ensemble Approaches in Modeling, Forecasting, and Control. Mathematical Problems in Engineering, 2013, 2013, 1-2.	0.6	0
100	Soft Computing Based On LabVIEW. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 975-981.	0.4	0
101	Control Systems Spectrum For Sustainability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 270-276.	0.4	0
102	Fast Execution of Black-Box Algorithms Through a Piece-Wise Linear Interpolation Technique. Arabian Journal for Science and Engineering, 2019, 44, 9443-9453.	1.7	0
103	Power Electronics in the Engineering Field: A Perception Comparison between Undergraduate and Graduate Students Using Fuzzy Logic Type 2 Signal Detection Theory. , 2019, , .		0
104	Bounded Region Optimization of PID Gains for Grid Forming Inverters with Genetic Algorithms. Lecture Notes in Computer Science, 2019, , 277-289.	1.0	0
105	Designing Fuzzy Artificial Organic Networks Using Sliding-Mode Control. Lecture Notes in Computer Science, 2019, , 546-556.	1.0	0
106	The Wit-Learning Methodology as a Means for Research Skills Acquisition. Advances in Educational Technologies and Instructional Design Book Series, 2020, , 196-222.	0.2	0
107	Improving the Attention Span of Elementary School Children in Mexico Through a S4 Technology Platform. Lecture Notes in Computer Science, 2020, , 525-532.	1.0	0
108	Driverâ€™s Personality and Behavior for Boosting Automobile Security and Sensing Health Problems Through Fuzzy Signal Detection Case Study: Mexico City. Sensors, 2021, 21, 7350.	2.1	0

#	Article	IF	Citations
109	Expanding electric vehicles lifetime in power electronic stage using an optimized fuzzy logic controller. International Journal on Interactive Design and Manufacturing, 2022, 16, 49-63.	1.3	0