

Paulo Moura Oliveira

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,294
citations

393982

19
h-index

395343

33
g-index

108
all docs

108
docs citations

108
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle swarm optimization with fractional-order velocity. <i>Nonlinear Dynamics</i> , 2010, 61, 295-301.	2.7	196
2	Greenhouse air temperature predictive control using the particle swarm optimisation algorithm. <i>Computers and Electronics in Agriculture</i> , 2005, 49, 330-344.	3.7	134
3	A multi-objective model for the day-ahead energy resource scheduling of a smart grid with high penetration of sensitive loads. <i>Applied Energy</i> , 2016, 162, 1074-1088.	5.1	63
4	Manipulator trajectory planning using a MOEA. <i>Applied Soft Computing Journal</i> , 2007, 7, 659-667.	4.1	60
5	A Decision-Support System Based on Particle Swarm Optimization for Multiperiod Hedging in Electricity Markets. <i>IEEE Transactions on Power Systems</i> , 2007, 22, 995-1003.	4.6	51
6	Improving disturbance rejection of PID controllers by means of the magnitude optimum method. <i>ISA Transactions</i> , 2010, 49, 47-56.	3.1	50
7	Chaos-based grey wolf optimizer for higher order sliding mode position control of a robotic manipulator. <i>Nonlinear Dynamics</i> , 2017, 90, 1353-1362.	2.7	44
8	Scenario generation for electric vehicles' uncertain behavior in a smart city environment. <i>Energy</i> , 2016, 111, 664-675.	4.5	37
9	Deep Learning Applications in Agriculture: A Short Review. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 139-151.	0.5	36
10	Fractional order dynamics in a GA planner. <i>Signal Processing</i> , 2003, 83, 2377-2386.	2.1	32
11	From single to many-objective PID controller design using particle swarm optimization. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 918-932.	1.6	32
12	Grey wolf optimization for PID controller design with prescribed robustness margins. <i>Soft Computing</i> , 2016, 20, 4243-4255.	2.1	31
13	Visual Trunk Detection Using Transfer Learning and a Deep Learning-Based Coprocessor. <i>IEEE Access</i> , 2020, 8, 77308-77320.	2.6	30
14	Design of Posicast PID control systems using a gravitational search algorithm. <i>Neurocomputing</i> , 2015, 167, 18-23.	3.5	27
15	Multi-objective MaxiMin Sorting Scheme. <i>Lecture Notes in Computer Science</i> , 2005, , 165-175.	1.0	25
16	Entropy Diversity in Multi-Objective Particle Swarm Optimization. <i>Entropy</i> , 2013, 15, 5475-5491.	1.1	25
17	A swarm intelligence-based tuning method for the sliding mode generalized predictive control. <i>ISA Transactions</i> , 2014, 53, 1501-1515.	3.1	24
18	A long-term risk management tool for electricity markets using swarm intelligence. <i>Electric Power Systems Research</i> , 2010, 80, 380-389.	2.1	22

#	ARTICLE	IF	CITATIONS
19	An APMonitor Temperature Lab PID Control Experiment for Undergraduate Students. , 2019, , .		22
20	Robotic grasping: from wrench space heuristics to deep learning policies. Robotics and Computer-Integrated Manufacturing, 2021, 71, 102176.	6.1	20
21	Review of nature and biologically inspired metaheuristics for greenhouse environment control. Transactions of the Institute of Measurement and Control, 2020, 42, 2338-2358.	1.1	19
22	Swarm-Based Design of Proportional Integral and Derivative Controllers Using a Compromise Cost Function: An Arduino Temperature Laboratory Case Study. Algorithms, 2020, 13, 315.	1.2	17
23	Dynamical modelling of a genetic algorithm. Signal Processing, 2006, 86, 2760-2770.	2.1	16
24	Road Tunnels Lighting using Genetic Algorithms. , 2009, , .		15
25	A feasibility study of sliding mode predictive control for greenhouses. Optimal Control Applications and Methods, 2016, 37, 730-748.	1.3	12
26	Teaching particle swarm optimization through an open-loop system identification project. Computer Applications in Engineering Education, 2014, 22, 227-237.	2.2	10
27	Many-objective optimization with corner-based search. Memetic Computing, 2015, 7, 105-118.	2.7	10
28	A Set of Active Disturbance Rejection Controllers Based on Integrator Plus Dead-Time Models. Applied Sciences (Switzerland), 2021, 11, 1671.	1.3	10
29	Underdamped Second-Order Systems Overshoot Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 518-523.	0.4	9
30	Automation and Control in Greenhouses: State-of-the-Art and Future Trends. Lecture Notes in Electrical Engineering, 2017, , 597-606.	0.3	9
31	Teaching automation and control with App Inventor applications. , 2015, , .		8
32	Multi-Objective Particle Swarm Optimization Design of PID Controllers. Lecture Notes in Computer Science, 2009, , 1222-1230.	1.0	8
33	Blending Artificial Intelligence into PID Controller Design: A Biomedical Engineering Experiment. IFAC-PapersOnLine, 2016, 49, 366-371.	0.5	7
34	PID controller tuning for integrating processes. IFAC-PapersOnLine, 2018, 51, 586-591.	0.5	7
35	Fractional Particle Swarm Optimization. , 2014, , 47-56.		7
36	Forecasting Students Dropout: A UTAD University Study. Future Internet, 2022, 14, 76.	2.4	7

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37	Mean Arterial Pressure PID Control Using a PSO-BOIDS Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 91-99.	0.5	6
38	Optimized Fractional Order Sliding Mode Controller for Water Level in Irrigation Canal Pool. <i>IFAC-PapersOnLine</i> , 2017, 50, 7663-7668.	0.5	5
39	Trends in Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 270-277.	0.5	5
40	Long-term Price Range Forecast Applied to Risk Management Using Regression Models. , 2007, , .		4
41	Gantry crane control: A simulation case study. , 2013, , .		4
42	Realistic traffic scenarios using a census methodology: Vila real case study. , 2014, , .		4
43	Evaluation of Hunting-Based Optimizers for a Quadrotor Sliding Mode Flight Controller. <i>Robotics</i> , 2020, 9, 22.	2.1	4
44	Gravitational Search Algorithm Design of Posicast PID Control Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 191-199.	0.5	4
45	A Statistical Classifier for Assessing the Level of Stress from the Analysis of Interaction Patterns in a Touch Screen. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 257-266.	0.5	4
46	Fractional dynamics in particle swarm optimization. , 2007, , .		3
47	APP inventor as a tool to reach students. , 2015, , .		3
48	PID Posicast Control for Uncertain Oscillatory Systems: A Practical Experiment. <i>IFAC-PapersOnLine</i> , 2018, 51, 416-421.	0.5	3
49	Dynamic Shannon Performance in a Multiobjective Particle Swarm Optimization. <i>Entropy</i> , 2019, 21, 827.	1.1	3
50	Innovating in Control Engineering Teaching/Learning with Smartphones. , 2019, , .		3
51	Breast Cancer Diagnosis using a Neural Network. , 2019, , .		3
52	ADRC as an Exercise for Modeling and Control Design in the State-Space. , 2019, , .		3
53	Innovative Teaching/Learning Methodologies in Control, Automation and Robotics: a Short Review. , 2021, , .		3
54	Bridging Theory to Practice: Feedforward and Cascade Control with TCLab Arduino Kit. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 23-32.	0.3	3

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55	Diffusion of Innovation Simulation Using an Evolutionary Algorithm. Lecture Notes in Computer Science, 2013, , 46-63.	1.0	3
56	Multi-apprentice learning for meta-heuristics parameter tuning in a Multi Agent Scheduling System. , 2012, , .		2
57	Diversity study of multi-objective genetic algorithm based on Shannon entropy. , 2014, , .		2
58	Classroom partial flip for feedback control systems: A biomedical engineering experience. , 2017, , .		2
59	Swarm Design of Series PID Cascade Controllers. , 2018, , .		2
60	Genetic algorithm applied to remove noise in DICOM images. Journal of Information and Optimization Sciences, 2019, 40, 1543-1558.	0.2	2
61	Corner Based Many-Objective Optimization. Studies in Computational Intelligence, 2014, , 125-139.	0.7	2
62	Dual Mode Feedforward-Feedback Control System. Lecture Notes in Electrical Engineering, 2015, , 241-250.	0.3	2
63	Greenhouse Heat Load Prediction Using a Support Vector Regression Model. Advances in Intelligent and Soft Computing, 2010, , 111-117.	0.2	2
64	Drivers da adoÃ§Ã£o de metodologias nÃ£o tradicionais. Texto Livre, 2020, 14, .	0.4	2
65	Particle Swarm Optimization for Gantry Control: A Teaching Experiment. Lecture Notes in Computer Science, 2011, , 196-207.	1.0	2
66	Your Turn to Learn â€œ Flipped Classroom in Automation Courses. Lecture Notes in Electrical Engineering, 2021, , 668-675.	0.3	2
67	Optimal Control of Air Temperature and Carbon Dioxide Concentration in Greenhouses. , 0, , .		1
68	Diffusion of innovation in organizations: Simulation using evolutionary computation. , 2012, , .		1
69	A student-friendly approach in teaching/learning theoretical concepts in automation. , 2017, , .		1
70	Teaching/learning PBL activity: Gantry crane control system implementation. , 2017, , .		1
71	Swarm-based auto-tuning of PID posicast control for uncertain systems. , 2017, , .		1
72	Revisiting the Simulated Annealing Algorithm from a Teaching Perspective. Advances in Intelligent Systems and Computing, 2017, , 718-727.	0.5	1

#	ARTICLE	IF	CITATIONS
73	Control Engineering Learning by Integrating App-Inventor Based Experiments. Lecture Notes in Electrical Engineering, 2017, , 845-855.	0.3	1
74	Optimizing Disturbance Rejection by Using Model-Based Compensator with User-Defined High-Frequency Gains. , 2018, , .		1
75	How we Turned Fully Digital due to Covid-19: Two Control Engineering Teaching Experiences. , 2021, , .		1
76	Fractional Order Dynamical Phenomena in a GA. Lecture Notes in Computer Science, 2003, , 510-511.	1.0	1
77	Optimal Location of the Workpiece in a PKM-Based Machining Robotic Cell. , 0, , 1500-1515.		1
78	Design of Discrete Non-Linear Two-Degrees-of-Freedom PID Controllers Using Genetic Algorithms. , 2001, , 320-323.		1
79	Entropy Based Grey Wolf Optimizer. Lecture Notes in Computer Science, 2020, , 329-337.	1.0	1
80	Automated synthesis procedure of RF discrete tuning differential capacitance circuits. , 2008, , .		0
81	Automated design of microwave discrete tuning differential capacitance circuits in Siâ€ integrated technologies. Microwave and Optical Technology Letters, 2010, 52, 629-634.	0.9	0
82	Maximin spreading algorithm. , 2010, , .		0
83	Meta-heuristics in multidimensional systems stability study. , 2015, , .		0
84	Quantum-based PSO applied to hour-ahead scheduling in the context of smart grid management. , 2015, , .		0
85	Predictive model based architecture for energy biomass supply chains tactical decisions * *This work was supported by the FCT - FundaÃ§Ã£o para a CiÃªncia e Tecnologia through the PhD Studentship SFRH/BD/98032/2013, program POPH - Programa Operacional Potencial Humano and FSE - Fundo Social Europeu. IFAC-PapersOnLine, 2017, 50, 7681-7686.	0.5	0
86	Disturbance Rejection Improvement for the Sliding Mode Smith Predictor Based on Bio-inspired Tuning. Lecture Notes in Electrical Engineering, 2017, , 45-58.	0.3	0
87	Posicast Based Experiments to Motivate Undergraduates to Control Engineering. , 2018, , .		0
88	Stability of multidimensional systems using bio-inspired meta-heuristics. International Journal of Control, 2018, 91, 2646-2656.	1.2	0
89	Design Optimization of Radio Frequency Discrete Tuning Varactors. Lecture Notes in Computer Science, 2009, , 343-352.	1.0	0
90	Design of Radio-Frequency Integrated CMOS Discrete Tuning Varactors Using the Particle Swarm Optimization Algorithm. Lecture Notes in Computer Science, 2009, , 1231-1239.	1.0	0

#	ARTICLE	IF	CITATIONS
91	Multi-criteria Manipulator Trajectory Optimization Based on Evolutionary Algorithms. <i>Advances in Intelligent and Soft Computing</i> , 2010, , 87-94.	0.2	0
92	Conflict Resolution Problem Solving with Bio-Inspired Metaheuristics. <i>Advances in Linguistics and Communication Studies</i> , 2016, , 168-182.	0.2	0
93	Integrating MIT App-Inventor in PLC Programming Teaching. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 17-24.	0.3	0
94	Optimal Location of the Workpiece in a PKM-based Machining Robotic Cell. , 0, , 223-236.		0