

Paulo Moura Oliveira

List of Publications by Citations

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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.

92
papers

875
citations

17
h-index

27
g-index

108
ext. papers

1,112
ext. citations

2
avg, IF

4.5
L-index

#	Paper	IF	Citations
92	Particle swarm optimization with fractional-order velocity. <i>Nonlinear Dynamics</i> , 2010 , 61, 295-301	5	144
91	Greenhouse air temperature predictive control using the particle swarm optimisation algorithm. <i>Computers and Electronics in Agriculture</i> , 2005 , 49, 330-344	6.5	97
90	Manipulator trajectory planning using a MOEA. <i>Applied Soft Computing Journal</i> , 2007 , 7, 659-667	7.5	48
89	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	10.7	42
88	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	7	37
87	Improving disturbance rejection of PID controllers by means of the magnitude optimum method. <i>ISA Transactions</i> , 2010 , 49, 47-56	5.5	33
86	Chaos-based grey wolf optimizer for higher order sliding mode position control of a robotic manipulator. <i>Nonlinear Dynamics</i> , 2017 , 90, 1353-1362	5	32
85	Fractional order dynamics in a GA planner. <i>Signal Processing</i> , 2003 , 83, 2377-2386	4.4	27
84	Scenario generation for electric vehiclesUncertain behavior in a smart city environment. <i>Energy</i> , 2016 , 111, 664-675	7.9	25
83	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	2.9	24
82	Design of Posicast PID control systems using a gravitational search algorithm. <i>Neurocomputing</i> , 2015 , 167, 18-23	5.4	24
81	Grey wolf optimization for PID controller design with prescribed robustness margins. <i>Soft Computing</i> , 2016 , 20, 4243-4255	3.5	23
80	Entropy Diversity in Multi-Objective Particle Swarm Optimization. <i>Entropy</i> , 2013 , 15, 5475-5491	2.8	22
79	A swarm intelligence-based tuning method for the Sliding Mode Generalized Predictive Control. <i>ISA Transactions</i> , 2014 , 53, 1501-15	5.5	20
78	Multi-objective MaxiMin Sorting Scheme. <i>Lecture Notes in Computer Science</i> , 2005 , 165-175	0.9	20
77	A long-term risk management tool for electricity markets using swarm intelligence. <i>Electric Power Systems Research</i> , 2010 , 80, 380-389	3.5	19
76	Deep Learning Applications in Agriculture: A Short Review. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 139-151	0.4	17

75	Dynamical modelling of a genetic algorithm. <i>Signal Processing</i> , 2006 , 86, 2760-2770	4.4	15
74	Robot Trajectory Planning Using Multi-objective Genetic Algorithm Optimization. <i>Lecture Notes in Computer Science</i> , 2004 , 615-626	0.9	15
73	Visual Trunk Detection Using Transfer Learning and a Deep Learning-Based Coprocessor. <i>IEEE Access</i> , 2020 , 8, 77308-77320	3.5	14
72	A feasibility study of sliding mode predictive control for greenhouses. <i>Optimal Control Applications and Methods</i> , 2016 , 37, 730-748	1.7	10
71	Multi-objective Genetic Manipulator Trajectory Planner. <i>Lecture Notes in Computer Science</i> , 2004 , 219-229.	0.9	9
70	Many-objective optimization with corner-based search. <i>Memetic Computing</i> , 2015 , 7, 105-118	3.4	8
69	Review of nature and biologically inspired metaheuristics for greenhouse environment control. <i>Transactions of the Institute of Measurement and Control</i> , 2020 , 42, 2338-2358	1.8	8
68	An APMonitor Temperature Lab PID Control Experiment for Undergraduate Students 2019 ,		8
67	Teaching particle swarm optimization through an open-loop system identification project. <i>Computer Applications in Engineering Education</i> , 2014 , 22, 227-237	1.6	8
66	Road Tunnels Lighting using Genetic Algorithms 2009 ,		8
65	Many-Objective PSO PID Controller Tuning. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 183-192	0.2	7
64	Teaching automation and control with App Inventor applications 2015 ,		6
63	Trends in Gravitational Search Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 270-277	0.4	5
62	Blending Artificial Intelligence into PID Controller Design: A Biomedical Engineering Experiment. <i>IFAC-PapersOnLine</i> , 2016 , 49, 366-371	0.7	5
61	A Set of Active Disturbance Rejection Controllers Based on Integrator Plus Dead-Time Models. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1671	2.6	5
60	PID controller tuning for integrating processes. <i>IFAC-PapersOnLine</i> , 2018 , 51, 586-591	0.7	5
59	Robotic grasping: from wrench space heuristics to deep learning policies. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 71, 102176	9.2	5
58	Automation and Control in Greenhouses: State-of-the-Art and Future Trends. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 597-606	0.2	4

57	Underdamped Second-Order Systems Overshoot Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 518-523		4
56	Long-term Price Range Forecast Applied to Risk Management Using Regression Models 2007 ,		4
55	Multi-Objective Particle Swarm Optimization Design of PID Controllers. <i>Lecture Notes in Computer Science</i> , 2009 , 1222-1230	0.9	4
54	MaxiMin MOPSO Design of Parallel Robotic Manipulators. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 339-347		4
53	Swarm-Based Design of Proportional Integral and Derivative Controllers Using a Compromise Cost Function: An Arduino Temperature Laboratory Case Study. <i>Algorithms</i> , 2020 , 13, 315	1.8	4
52	Mean Arterial Pressure PID Control Using a PSO-BOIDS Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 91-99	0.4	3
51	Gravitational Search Algorithm Design of Posicast PID Control Systems. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 191-199	0.4	3
50	Diffusion of Innovation Simulation Using an Evolutionary Algorithm. <i>Lecture Notes in Computer Science</i> , 2013 , 46-63	0.9	3
49	Optimized Fractional Order Sliding Mode Controller for Water Level in Irrigation Canal Pool. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7663-7668	0.7	2
48	Dynamic Shannon Performance in a Multiobjective Particle Swarm Optimization. <i>Entropy</i> , 2019 , 21, 827	2.8	2
47	Innovating in Control Engineering Teaching/Learning with Smartphones 2019 ,		2
46	Gantry crane control: A simulation case study 2013 ,		2
45	Grey Wolf, Gravitational Search and Particle Swarm Optimizers: A Comparison for PID Controller Design. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 239-249	0.2	2
44	Diversity study of multi-objective genetic algorithm based on Shannon entropy 2014 ,		2
43	Fractional dynamics in particle swarm optimization 2007 ,		2
42	Nature Inspired Metaheuristics and Their Applications in Agriculture: A Short Review. <i>Lecture Notes in Computer Science</i> , 2019 , 167-179	0.9	2
41	Corner Based Many-Objective Optimization. <i>Studies in Computational Intelligence</i> , 2014 , 125-139	0.8	2
40	Extended Stability Conditions for CDM Controller Design. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 171-182	0.2	2

39	Greenhouse Heat Load Prediction Using a Support Vector Regression Model. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 111-117		2
38	Fractional Particle Swarm Optimization 2014 , 47-56		2
37	Breast Cancer Diagnosis using a Neural Network 2019 ,		1
36	Evaluation of Hunting-Based Optimizers for a Quadrotor Sliding Mode Flight Controller. <i>Robotics</i> , 2020 , 9, 22	2.8	1
35	2017 ,		1
34	Classroom partial flip for feedback control systems: A biomedical engineering experience 2017 ,		1
33	Swarm-based auto-tuning of PID posicast control for uncertain systems 2017 ,		1
32	Revisiting the Simulated Annealing Algorithm from a Teaching Perspective. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 718-727	0.4	1
31	Robust Control of Agroindustrial Drying Process of Grains Based on Sliding Modes and Gravitational Search Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 629-639	0.2	1
30	APP inventor as a tool to reach students 2015 ,		1
29	Diffusion of innovation in organizations: Simulation using evolutionary computation 2012 ,		1
28	Multi-apprentice learning for meta-heuristics parameter tuning in a Multi Agent Scheduling System 2012 ,		1
27	Optimal Location of the Workpiece in a PKM-Based Machining Robotic Cell1500-1515		1
26	Design of Discrete Non-Linear Two-Degrees-of-Freedom PID Controllers Using Genetic Algorithms 2001 , 320-323		1
25	Bridging Theory to Practice: Feedforward and Cascade Control with TCLab Arduino Kit. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 23-32	0.2	1
24	Bridging Classical Control with Nature Inspired Computation Through PID Robust Design. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 307-316	0.4	1
23	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	0.4	1
22	Particle Swarm Optimization for Gantry Control: A Teaching Experiment. <i>Lecture Notes in Computer Science</i> , 2011 , 196-207	0.9	1

21	ADRC as an Exercise for Modeling and Control Design in the State-Space 2019 ,		1
20	Genetic algorithm applied to remove noise in DICOM images. <i>Journal of Information and Optimization Sciences</i> , 2019 , 40, 1543-1558	1.1	1
19	PID Posicast Control for Uncertain Oscillatory Systems: A Practical Experiment. <i>IFAC-PapersOnLine</i> , 2018 , 51, 416-421	0.7	1
18	The Model-Based Disturbance Rejection with MOMI Tuning Method for PID Controllers. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 81-91	0.2	0
17	Entropy Based Grey Wolf Optimizer. <i>Lecture Notes in Computer Science</i> , 2020 , 329-337	0.9	0
16	Your Turn to Learn [Flipped Classroom in Automation Courses. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 668-675	0.2	0
15	Genetic and Ant Colony Algorithms to Solve the Multi-TSP. <i>Lecture Notes in Computer Science</i> , 2021 , 324-332	0.9	0
14	Forecasting Students Dropout: A UTAD University Study. <i>Future Internet</i> , 2022 , 14, 76	3.3	0
13	Predictive model based architecture for energy biomass supply chains tactical decisions * *This work was supported by the FCT - Funda� para a Ciencia e Tecnologia through the PhD Studentship SFRH/BD/98032/2013, program POPH - Programa Operacional Potencial Humano and FSE - Fundo Social Europeu.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7681-7686	0.7	
12	Stability of multidimensional systems using bio-inspired meta-heuristics. <i>International Journal of Control</i> , 2018 , 91, 2646-2656	1.5	
11	Disturbance Rejection Improvement for the Sliding Mode Smith Predictor Based on Bio-inspired Tuning. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 45-58	0.2	
10	Control Engineering Learning by Integrating App-Inventor Based Experiments. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 845-855	0.2	
9	Sliding Mode Generalized Predictive Control Based on Dual Optimization. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 81-90	0.2	
8	Automated design of microwave discrete tuning differential capacitance circuits in Si-integrated technologies. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 629-634	1.2	
7	Optimal Location of the Workpiece in a PKM-based Machining Robotic Cell223-236		
6	Integrating MIT App-Inventor in PLC Programming Teaching. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 17-24	0.2	
5	Conflict Resolution Problem Solving with Bio-Inspired Metaheuristics. <i>Advances in Linguistics and Communication Studies</i> , 2016 , 168-182	0.3	
4	Design Optimization of Radio Frequency Discrete Tuning Varactors. <i>Lecture Notes in Computer Science</i> , 2009 , 343-352	0.9	

- 3 Design of Radio-Frequency Integrated CMOS Discrete Tuning Varactors Using the Particle Swarm Optimization Algorithm. *Lecture Notes in Computer Science*, **2009**, 1231-1239 0.9
- 2 Multi-criteria Manipulator Trajectory Optimization Based on Evolutionary Algorithms. *Advances in Intelligent and Soft Computing*, **2010**, 87-94
- 1 Students Drop Out Trends: A University Study. *Communications in Computer and Information Science*, **2021**, 442-450 0.3