E J Solteiro Pires

List of Publications by Year
in descending order

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Version: 2024-02-01

66 papers	808 citations	567281 15 h-index	552781 26 g-index
72 all docs	72 docs citations	72 times ranked	763 citing authors

#	Article	IF	Citations
1	Particle swarm optimization with fractional-order velocity. Nonlinear Dynamics, 2010, 61, 295-301.	5.2	196
2	Manipulator trajectory planning using a MOEA. Applied Soft Computing Journal, 2007, 7, 659-667.	7.2	60
3	Optimal Cable Design of Wind Farms:<?Pub _newline ?> The Infrastructure and Losses Cost Minimization Case. IEEE Transactions on Power Systems, 2016, 31, 4319-4329.	6.5	47
4	Path Planning for ground robots in agriculture: a short review. , 2020, , .		47
5	Fractional order dynamics in a GA planner. Signal Processing, 2003, 83, 2377-2386.	3.7	32
6	From single to many-objective PID controller design using particle swarm optimization. International Journal of Control, Automation and Systems, 2017, 15, 918-932.	2.7	32
7	Grey wolf optimization for PID controller design with prescribed robustness margins. Soft Computing, 2016, 20, 4243-4255.	3.6	31
8	Decision Support for Energy Contracts Negotiation with Game Theory and Adaptive Learning. Energies, 2015, 8, 9817-9842.	3.1	29
9	Design of Posicast PID control systems using a gravitational search algorithm. Neurocomputing, 2015, 167, 18-23.	5.9	27
10	Multi-objective MaxiMin Sorting Scheme. Lecture Notes in Computer Science, 2005, , 165-175.	1.3	25
11	Entropy Diversity in Multi-Objective Particle Swarm Optimization. Entropy, 2013, 15, 5475-5491.	2.2	25
12	Review of nature and biologically inspired metaheuristics for greenhouse environment control. Transactions of the Institute of Measurement and Control, 2020, 42, 2338-2358.	1.7	19
13	Bringing Semantics to the Vineyard: An Approach on Deep Learning-Based Vine Trunk Detection. Agriculture (Switzerland), 2021, 11, 131.	3.1	18
14	Wind farm distribution network optimization. Integrated Computer-Aided Engineering, 2015, 23, 69-79.	4.6	17
15	Swarm-Based Design of Proportional Integral and Derivative Controllers Using a Compromise Cost Function: An Arduino Temperature Laboratory Case Study. Algorithms, 2020, 13, 315.	2.1	17
16	Dynamical modelling of a genetic algorithm. Signal Processing, 2006, 86, 2760-2770.	3.7	16
17	Road Tunnels Lighting using Genetic Algorithms. , 2009, , .		15
18	Six thinking hats: A novel metalearner for intelligent decision support in electricity markets. Decision Support Systems, 2015, 79, 1-11.	5.9	13

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19	Teaching particle swarm optimization through an openâ€loop system identification project. Computer Applications in Engineering Education, 2014, 22, 227-237.	3.4	10
20	Many-objective optimization with corner-based search. Memetic Computing, 2015, 7, 105-118.	4.0	10
21	FRACTIONAL DYNAMICS IN GENETIC ALGORITHMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 414-419.	0.4	9
22	Wind Farm Cable Connection Layout Optimization with Several Substations. Energies, 2021, 14, 3615.	3.1	9
23	Multi-Objective Particle Swarm Optimization Design of PID Controllers. Lecture Notes in Computer Science, 2009, , 1222-1230.	1.3	8
24	Optimization Design in Wind Farm Distribution Network. Advances in Intelligent Systems and Computing, 2014, , 109-119.	0.6	7
25	Fractional Particle Swarm Optimization. , 2014, , 47-56.		7
26	Forecasting Students Dropout: A UTAD University Study. Future Internet, 2022, 14, 76.	3.8	7
27	Automated design of radio-frequency single-ended switched capacitor arrays using genetic algorithms. Midwest Symposium on Circuits and Systems, 2007, , .	1.0	6
28	Mean Arterial Pressure PID Control Using a PSO-BOIDS Algorithm. Advances in Intelligent Systems and Computing, 2014, , 91-99.	0.6	6
29	A GA perspective of the energy requirements for manipulators maneuvering in a workspace with obstacles. , 0, , .		4
30	Gravitational Search Algorithm Design of Posicast PID Control Systems. Advances in Intelligent Systems and Computing, 2013, , 191-199.	0.6	4
31	Fractional dynamics in particle swarm optimization. , 2007, , .		3
32	Reply to: Comments on â€œParticle Swarm Optimization with Fractional-Order Velocityâ€• Nonlinear Dynamics, 2014, 77, 435-436.	5.2	3
33	APP inventor as a tool to reach students. , 2015, , .		3
34	Dynamic Shannon Performance in a Multiobjective Particle Swarm Optimization. Entropy, 2019, 21, 827.	2.2	3
35	Breast Cancer Diagnosis using a Neural Network. , 2019, , .		3
36	Evolutionary computation in the design of logic circuits. , 2007, , .		2

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37	Diversity study of multi-objective genetic algorithm based on Shannon entropy. , 2014, , .		2
38	E-GRAFCET+: An Internet Based Multimedia Tool Refined. IFAC-PapersOnLine, 2015, 48, 111-116.	0.9	2
39	Genetic algorithm applied to remove noise in DICOM images. Journal of Information and Optimization Sciences, 2019, 40, 1543-1558.	0.3	2
40	PSO Evolution Based on a Entropy Metric. Advances in Intelligent Systems and Computing, 2020, , 238-248.	0.6	2
41	Automatic Fall Detection Using Long Short-Term Memory Network. Lecture Notes in Computer Science, 2021, , 359-371.	1.3	2
42	Corner Based Many-Objective Optimization. Studies in Computational Intelligence, 2014, , 125-139.	0.9	2
43	Particle Swarm Optimization for Gantry Control: A Teaching Experiment. Lecture Notes in Computer Science, 2011, , 196-207.	1.3	2
44	A High-Performance Digitally Controlled LC Oscillator for Ku-Band Applications. , 2007, , .		1
45	Particle Swarm Optimization: Dynamical Analysis through Fractional Calculus. , 2009, , .		1
46	Complete Dynamic Modeling of a Stewart Platform Using the Generalized Momentum Approach. , 2011, , 199-210.		1
47	Diffusion of innovation in organizations: Simulation using evolutionary computation. , 2012, , .		1
48	Multi-agent based metalearner using genetic algorithm for decision support in electricity markets. , 2015, , .		1
49	Portfolio Optimization for Electricity Market Participation with Particle Swarm. , 2015, , .		1
50	Revisiting the Simulated Annealing Algorithm from a Teaching Perspective. Advances in Intelligent Systems and Computing, 2017, , 718-727.	0.6	1
51	Optimal Location of the Workpiece in a PKM-Based Machining Robotic Cell. , 0, , 1500-1515.		1
52	Entropy Based Grey Wolf Optimizer. Lecture Notes in Computer Science, 2020, , 329-337.	1.3	1
53	An Evolutionary Synthesis Algorithm to Design Optimum Performance CMOS RFSSCAs. , 2007, , .		0
54	Automated synthesis procedure of RF discrete tuning differential capacitance circuits. , 2008, , .		0

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55	Automated design of microwave discrete tuning differential capacitance circuits in Siâ€integrated technologies. Microwave and Optical Technology Letters, 2010, 52, 629-634.	1.4	0
56	Maximin spreading algorithm. , 2010, , .		0
57	State Operation Optimization in Electrical Networks. , 2013, , .		0
58	Single-Objective Spreading Algorithm. Intelligent Systems, Control and Automation: Science and Engineering, 2013, , 131-142.	0.5	0
59	Optimal operation point in electrical grids using a MOPSO algorithm. , 2014, , .		0
60	Meta-heuristics in multidimensional systems stability study. , 2015, , .		0
61	Multi-objective Dynamic Analysis Using Fractional Entropy. Advances in Intelligent Systems and Computing, 2017, , 448-456.	0.6	0
62	Stability of multidimensional systems using bio-inspired meta-heuristics. International Journal of Control, 2018, 91, 2646-2656.	1.9	0
63	Design Optimization of Radio Frequency Discrete Tuning Varactors. Lecture Notes in Computer Science, 2009, , 343-352.	1.3	0
64	Design of Radio-Frequency Integrated CMOS Discrete Tuning Varactors Using the Particle Swarm Optimization Algorithm. Lecture Notes in Computer Science, 2009, , 1231-1239.	1.3	0
65	Optimal Location of the Workpiece in a PKM-based Machining Robotic Cell. , 0, , 223-236.		0
66	ENHANCING HIGHER EDUCATION TUTORING WITH ARTIFICIAL INTELLIGENCE INFERENCE. EDULEARN Proceedings, 2022, , .	0.0	0