Pilar M Ortigosa

List of Publications by Year
in descending order

70	937	516710 16	526287 27
papers	citations	h-index	g-index

74	74	74	643
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimizing building comfort temperature regulation via model predictive control. Energy and Buildings, 2013, 57, 361-372.	6.7	101
2	Hardware description of multi-layer perceptrons with different abstraction levels. Microprocessors and Microsystems, 2006, 30, 435-444.	2.8	57
3	Review of software for optical analyzing and optimizing heliostat fields. Renewable and Sustainable Energy Reviews, 2017, 72, 1001-1018.	16.4	51
4	Solving the Multiple Competitive Facilities Location and Design Problem on the Plane. Evolutionary Computation, 2009, 17, 21-53.	3.0	44
5	Heuristics for the facility location and design (1|1)-centroid problem on the plane. Computational Optimization and Applications, 2010, 45, 111-141.	1.6	40
6	Reliability and Performance of UEGO, a Clustering-based Global Optimizer. Journal of Global Optimization, 2001, 19, 265-289.	1.8	35
7	Fixed or variable demand? Does it matter when locating a facility?. Omega, 2012, 40, 9-20.	5.9	33
8	Approximating the Pareto-front of a planar bi-objective competitive facility location and design problem. Computers and Operations Research, 2015, 62, 337-349.	4.0	32
9	On success rates for controlled random search. Journal of Global Optimization, 2001, 21, 239-263.	1.8	30
10	A two-level evolutionary algorithm for solving the facility location and design (1|1)-centroid problem on the plane with variable demand. Journal of Global Optimization, 2013, 56, 983-1005.	1.8	27
11	UEGO, an Abstract Clustering Technique for Multimodal Global Optimization. Journal of Heuristics, 2001, 7, 215-233.	1.4	26
12	The probabilistic customerâ€™s choice rule with a threshold attraction value: Effect on the location of competitive facilities in the plane. Computers and Operations Research, 2019, 101, 234-249.	4.0	24
13	A robust and efficient algorithm for planar competitive location problems. Annals of Operations Research, 2009, 167, 87-105.	4.1	23
14	A planar single-facility competitive location and design problem under the multi-deterministic choice rule. Computers and Operations Research, 2017, 78, 305-315.	4.0	23
15	Two- and three-dimensional modeling and optimization applied to the design of a fast hydrodynamic focusing microfluidic mixer for protein folding. Physics of Fluids, 2013, 25, 032001.	4.0	21
16	A parallel Teachingâ€“Learning-Based Optimization procedure for automatic heliostat aiming. Journal of Supercomputing, 2017, 73, 591-606.	3.6	21
17	GASUB: finding global optima to discrete location problems by a genetic-like algorithm. Journal of Global Optimization, 2007, 38, 249-264.	1.8	18
18	Is high performance computing a requirement for novel drug discovery and how will this impact academic efforts?. Expert Opinion on Drug Discovery, 2020, 15, 981-985.	5.0	17

#	Article	IF	Citations
19	Parallel algorithms for continuous competitive location problems. Optimization Methods and Software, 2008, 23, 779-791.	2.4	16
20	Hector, a new methodology for continuous and pattern-free heliostat field optimization. Applied Energy, 2018, 225, 1123-1131.	10.1	16
21	High performance computing for the heliostat field layout evaluation. Journal of Supercomputing, 2017, 73, 259-276.	3.6	15
22	Parallel algorithms for continuous multifacility competitive location problems. Journal of Global Optimization, 2011, 50, 557-573.	1.8	14
23	A two-layered solution for automatic heliostat aiming. Engineering Applications of Artificial Intelligence, 2018, 72, 253-266.	8.1	14
24	OptiPharm: An evolutionary algorithm to compare shape similarity. Scientific Reports, 2019, 9, 1398.	3.3	13
25	Sensitivity analysis of a continuous multifacility competitive location and design problem. Top, 2009, 17, 347-365.	1.6	12
26	Preference-based multi-objectivization applied to decision support for High-Pressure Thermal processes in food treatment. Applied Soft Computing Journal, 2019, 79, 326-340.	7.2	12
27	DOLARS, a Distributed On-Line Activity Recognition System by Means of Heterogeneous Sensors in Real-Life Deploymentsâ€"A Case Study in the Smart Lab of The University of AlmerÃa. Sensors, 2021, 21, 405.	3.8	12
28	An approach for solving competitive location problems with variable demand using multicore systems. Optimization Letters, 2014, 8, 555-567.	1.6	10
29	Solving a leaderâ€"follower facility problem via parallel evolutionary approaches. Journal of Supercomputing, 2014, 70, 600-611.	3.6	9
30	Parallelization of a non-linear multi-objective optimization algorithm: Application to a location problem. Applied Mathematics and Computation, 2015, 255, 114-124.	2.2	9
31	Design of a parallel genetic algorithm for continuous and pattern-free heliostat field optimization. Journal of Supercomputing, 2019, 75, 1268-1283.	3.6	9
32	Multi-objective single agent stochastic search in non-dominated sorting genetic algorithm. Nonlinear Analysis: Modelling and Control, 2013, 18, 293-313.	1.6	9
33	A population global optimization algorithm to solve the image alignment problem in electron crystallography. Journal of Global Optimization, 2007, 37, 527-539.	1.8	8
34	Solving the facility location and design (1â^£1)-centroid problem via parallel algorithms. Journal of Supercomputing, 2011, 58, 420-428.	3.6	8
35	An efficient approach for solving the HP protein folding problem based on UEGO. Journal of Mathematical Chemistry, 2015, 53, 794-806.	1.5	8
36	High-performance computing for the optimization of high-pressure thermal treatments in food industry. Journal of Supercomputing, 2019, 75, 1187-1202.	3.6	8

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37	PARALLEL OPTIMIZATION ALGORITHM FOR COMPETITIVE FACILITY LOCATION. Mathematical Modelling and Analysis, 2015, 20, 619-640.	1.5	7
38	A parallelized Lagrangean relaxation approach for the discrete ordered median problem. Annals of Operations Research, 2016, 246, 253-272.	4.1	7
39	FEMOEA: a fast and efficient multi-objective evolutionary algorithm. Mathematical Methods of Operations Research, 2017, 85, 113-135.	1.0	7
40	On building-up a yearly characterization of a heliostat field: A new methodology and an application example. Solar Energy, 2018, 173, 578-589.	6.1	7
41	Optimizing the Heliostat Field Layout by Applying Stochastic Population-Based Algorithms. Informatica, 2018, 29, 21-39.	2.7	7
42	A Simple and Effective Heuristic Control System for the Heliostat Field of Solar Power Tower Plants. Acta Polytechnica Hungarica, 2020, 17, 7-26.	2.9	6
43	Deformable shapes detection by stochastic optimization. , 0, , .		5
44	Parallel evolutionary algorithms based on shared memory programming approaches. Journal of Supercomputing, 2011, 58, 270-279.	3.6	5
45	A GPU implementation of a hybrid evolutionary algorithm: GPuEGO. Journal of Supercomputing, 2014, 70, 684-695.	3.6	5
46	Modelling and optimization applied to the design of fast hydrodynamic focusing microfluidic mixer for protein folding. Journal of Mathematics in Industry, 2018, 8, .	1.2	5
47	Finding multiple global optima for unconstrained discrete location problems. Optimization Methods and Software, 2011, 26, 207-224.	2.4	4
48	On heuristic bi-criterion methods for semi-obnoxious facility location. Computational Optimization and Applications, 2015, 61, 205-217.	1.6	4
49	A New Methodology for Building-Up a Robust Model for Heliostat Field Flux Characterization. Energies, 2017, 10, 730.	3.1	4
50	A Comparative Study of Stochastic Optimizers for Fitting Neuron Models. Application to the Cerebellar Granule Cell. Informatica, 2021, , 477-498.	2.7	4
51	FPGA Implementation of a Fully and Partially Connected MLP. , 2006, , 271-296.		4
52	On the limits of Conditional Generative Adversarial Neural Networks to reconstruct the identification of inhabitants from IoT low-resolution thermal sensors. Expert Systems With Applications, 2022, 203, 117356.	7.6	4
53	Investigation of parallel particle swarm optimization algorithm with reduction of the search area. , 2010, , .		3
54	Local optimization in global Multi-Objective Optimization Algorithms. , 2011, , .		3

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55	A Triobjective Model for Locating a Public Semiobnoxious Facility in the Plane. Mathematical Problems in Engineering, 2015, 2015, 1-12.	1.1	3
56	Improving the performance of a preference-based multi-objective algorithm to optimize food treatment processes. Engineering Optimization, 2020, 52, 896-913.	2.6	3
57	Optimizing Electrostatic Similarity for Virtual Screening: A New Methodology. Informatica, 2020, , 1-19.	2.7	3
58	A global optimization approach to image translational alignment in electron microscopy. , 0, , .		2
59	Control and optimal management of a heliostat field for solar power tower systems. , 2019, , .		2
60	Solving a Continuous (1 I 1)-Centroid Problem with Endogenous Demand: High Performance Approaches. , 2013, , .		1
61	Parallel Shared-Memory Multi-Objective Stochastic Search for Competitive Facility Location. Lecture Notes in Computer Science, 2014, , 71-82.	1.3	1
62	Multi-objective evolutionary algorithm for evaluation of shape and electrostatic similarity. AIP Conference Proceedings, 2019, , .	0.4	1
63	Approximating the Pareto-front of Continuous Bi-objective Problems: Application to a Competitive Facility Location Problem. Advances in Intelligent Systems and Computing, 2012, , 207-216.	0.6	1
64	Universal Global Optimization Algorithm on Shared Memory Multiprocessors. Lecture Notes in Computer Science, 2009, , 219-222.	1.3	1
65	Huff-Like Stackelberg Location Problems on the Plane. Springer Optimization and Its Applications, 2017, , 129-169.	0.9	1
66	Modeling and Optimization Applied to the Design of Fast Hydrodynamic Focusing Microfluidic Mixer for Protein Folding. Mathematics in Industry, 2017, , 649-655.	0.3	0
67	Predicting the spread of epidemiological diseases by using a multi-objective algorithm. AIP Conference Proceedings, 2019, , .	0.4	0
68	A lightweight heliostat field post-optimizer. AIP Conference Proceedings, 2019, , .	0.4	0
69	MultiPharm-DT: A Multi-Objective Decision Tool for Ligand-Based Virtual Screening Problems. Informatica, 2021, , 1-26.	2.7	0
70	Competitive Location: New Models and Methods and Future Trends. International Journal of Economics and Statistics, 2022, 10, 95-102.	0.1	0