ConsolaciÃ³n Gil

List of Publications by Year
in descending order

61 papers	2,862 citations	304368 22 h-index	168136 53 g-index
62 all docs	62 docs citations	62 times ranked	3560 citing authors

#	Article	IF	Citations
1	Multi-Objective Evolutionary Algorithms to Find Community Structures in Large Networks. Mathematics, 2020, 8, 2048.	1.1	6
2	Evolutionary Algorithms for Community Detection in Continental-Scale High-Voltage Transmission Grids. Symmetry, 2019, 11, 1472.	1.1	7
3	Community detection in national-scale high voltage transmission networks using genetic algorithms. Advanced Engineering Informatics, 2018, 38, 232-241.	4.0	28
4	Adaptive community detection in complex networks using genetic algorithms. Neurocomputing, 2017, 266, 101-113.	3.5	95
5	Analysis of OpenMP and MPI implementations of meta-heuristics for vehicle routing problems. Applied Soft Computing Journal, 2016, 43, 262-275.	4.1	18
6	Multi-objective evolutionary algorithms for the design of grid-connected solar tracking systems. International Journal of Electrical Power and Energy Systems, 2014, 61, 371-379.	3.3	9
7	Wind turbine selection for wind farm layout using multi-objective evolutionary algorithms. Expert Systems With Applications, 2014, 41, 6585-6595.	4.4	77
8	The assessment of evolutionary algorithms for analyzing the positional accuracy and uncertainty of maps. Expert Systems With Applications, 2014, 41, 6346-6360.	4.4	7
9	A Simulated Annealing-based parallel multi-objective approach to vehicle routing problems with time windows. Expert Systems With Applications, 2013, 40, 1696-1707.	4.4	101
10	A parallel multi-objective algorithm for two-dimensional bin packing with rotations and load balancing. Expert Systems With Applications, 2013, 40, 5169-5180.	4.4	28
11	Scientific production of renewable energies worldwide: An overview. Renewable and Sustainable Energy Reviews, 2013, 18, 134-143.	8.2	278
12	A Pareto-based multi-objective evolutionary algorithm for automatic rule generation in network intrusion detection systems. Soft Computing, 2013, 17, 255-263.	2.1	42
13	Pareto-based evolutionary algorithms for the calculation of transformation parameters and accuracy assessment of historical maps. Computers and Geosciences, 2013, 57, 124-132.	2.0	20
14	Genetic algorithm for S-transform optimisation in the analysis and classification of electrical signal perturbations. Expert Systems With Applications, 2013, 40, 6766-6777.	4.4	28
15	A hybrid meta-heuristic for multi-objective vehicle routing problems with time windows. Computers and Industrial Engineering, 2013, 65, 286-296.	3.4	118
16	Engaging students in computer-supported cooperative learning. International Journal of Learning Technology, 2013, 8, 297.	0.2	5
17	Evolutionary algorithms for the design of grid-connected PV-systems. Expert Systems With Applications, 2012, 39, 8086-8094.	4.4	27
18	A Multi-Objective Evolutionary Algorithm for Network Intrusion Detection Systems. Lecture Notes in Computer Science, 2011, , 73-80.	1.0	4

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19	Cooperative learning and electronic group portfolio: tutoring tools, development of competences and assessment. International Journal of Learning Technology, 2011, 6, 46.	0.2	5
20	Multi-objective crop planning using pareto-based evolutionary algorithms. Agricultural Economics (United Kingdom), 2011, 42, 649-656.	2.0	34
21	Resilience Indexes for Water Distribution Network Design: A Performance Analysis Under Demand Uncertainty. Water Resources Management, 2011, 25, 2351-2366.	1.9	67
22	Comparative analysis of power variables in high performance embedded and x86 architectures using GNU/Linux. Computers and Electrical Engineering, 2011, 37, 541-549.	3.0	7
23	Parallelism on multicore processors using Parallel.FX. Advances in Engineering Software, 2011, 42, 259-265.	1.8	6
24	Optimization methods applied to renewable and sustainable energy: A review. Renewable and Sustainable Energy Reviews, 2011, 15, 1753-1766.	8.2	1,276
25	Annealing-tabu PAES: a multi-objective hybrid meta-heuristic. Optimization, 2011, 60, 1473-1491.	1.0	6
26	Open source tool for energy saving and efficient system management. , 2011, , .		0
27	Ant Colony Optimization for Water Distribution Network Design: A Comparative Study. Lecture Notes in Computer Science, 2011, , 300-307.	1.0	12
28	A memetic algorithm applied to the design of water distribution networks. Applied Soft Computing Journal, 2010, 10, 261-266.	4.1	70
29	Minimization of voltage deviation and power losses in power networks using Pareto optimization methods. Engineering Applications of Artificial Intelligence, 2010, 23, 695-703.	4.3	42
30	Cryptanalysis of Hash Functions Using Advanced Multiprocessing. Advances in Intelligent and Soft Computing, 2010, , 221-228.	0.2	1
31	A Pareto-based memetic algorithm for optimization of looped water distribution systems. Engineering Optimization, 2010, 42, 223-240.	1.5	7
32	Multi-Objective Evolutionary Algorithms Used in Greenhouse Planning for Recycling Biomass into Energy. Advances in Intelligent and Soft Computing, 2010, , 463-470.	0.2	1
33	A New Memetic Algorithm for the Two-Dimensional Bin-Packing Problem with Rotations. Advances in Intelligent and Soft Computing, 2010, , 541-548.	0.2	4
34	Implementation of scatter search for multi-objective optimization: a comparative study. Computational Optimization and Applications, 2009, 42, 421-441.	0.9	28
35	Design of a Snort-Based Hybrid Intrusion Detection System. Lecture Notes in Computer Science, 2009, , 515-522.	1.0	20
36	Application of Several Meta-Heuristic Techniques to the Optimization of Real Looped Water Distribution Networks. Water Resources Management, 2008, 22, 1367-1379.	1.9	100

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37	Optimal Design of Gravity-Fed Looped Water Distribution Networks Considering the Resilience Index. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 234-238.	1.3	44
38	IMPROVING THE PERFORMANCE OF MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS USING THE ISLAND PARALLEL MODEL. Parallel Processing Letters, 2007, 17, 127-139.	0.4	3
39	A Hybrid Meta-Heuristic for Multi-Objective Optimization: MOSATS. Mathematical Modelling and Algorithms, 2007, 6, 213-230.	0.5	27
40	A hybrid method for solving multi-objective global optimization problems. Journal of Global Optimization, 2007, 38, 265-281.	1.1	27
41	A Memetic Algorithm for Water Distribution Network Design. , 2007, , 279-289.		15
42	Parallelization of population-based multi-objective meta-heuristics: An empirical study. Applied Mathematical Modelling, 2006, 30, 578-592.	2.2	10
43	Performance Analysis of Parallel Strategies for Bi-objective Network Partitioning. Advances in Intelligent and Soft Computing, 2006, , 291-300.	0.2	1
44	OptimizaciÃ³n de TensiÃ³n en Redes de DistribuciÃ³n utilizando TÃ©cnicas de OptimizaciÃ³n Evolutiva. Informacion Tecnologica (discontinued), 2006, 17, .	0.1	3
45	Adapting Multi-Objective Meta-Heuristics for Graph Partitioning. , 2006, , 123-132.		0
46	A Parallel Multilevel Metaheuristic for Graph Partitioning. Journal of Heuristics, 2004, 10, 315-336.	1.1	25
47	Parallel heuristic search in multilevel graph partitioning. , 2004, , .		4
48	Optimising Graph Partitions Using Parallel Evolution. Lecture Notes in Computer Science, 2004, , 91-102.	1.0	0
49	The load unbalancing problem for region growing image segmentation algorithms. Journal of Parallel and Distributed Computing, 2003, 63, 387-395.	2.7	23
50	A parallel evolutionary algorithm for circuit partitioning. , 2003, , .		3
51	Multilevel Heuristic Algorithm for Graph Partitioning. Lecture Notes in Computer Science, 2003, , 143-153.	1.0	22
52	A Mixed Heuristic for Circuit Partitioning. Computational Optimization and Applications, 2002, 23, 321-340.	0.9	23
53	Parallel VLSI test in a shared-memory multiprocessor. Concurrency and Computation: Practice and Experience, 2000, 12, 311-326.	0.6	9
54	Parallel thinning algorithms on multicomputers: experimental study on load balancing. Concurrency and Computation: Practice and Experience, 2000, 12, 327-340.	0.6	2

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55	Load balancing for a class of irregular and dynamic problems: region growing image segmentation algorithms. , 1999, , .		3
56	Algebraic test-pattern generation based on the Reed–Muller spectrum. IEE Proceedings: Computers and Digital Techniques, 1998, 145, 308.	1.6	7
57	Annealing-based heuristics and genetic algorithms for circuit partitioning in parallel test generation. Future Generation Computer Systems, 1998, 14, 439-451.	4.9	12
58	Load balancing in parallel circuit testing with annealing-based and genetic algorithms. Lecture Notes in Computer Science, 1998, , 835-844.	1.0	1
59	Parallel test pattern generation using circuit partitioning in a shared-memory multiprocessor. Lecture Notes in Computer Science, 1998, , 167-171.	1.0	1
60	Meta-heuristics for circuit partitioning in parallel test generation. Lecture Notes in Computer Science, 1998, , 315-323.	1.0	2
61	Parallel test generation using circuit partitioning and spectral techniques. , 0, , .		9