

# Consolacin Gil

## List of Publications by Year in Descending Order

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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.

60  
papers

2,293  
citations

20  
h-index

47  
g-index

62  
ext. papers

2,569  
ext. citations

4  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
60	Multi-Objective Evolutionary Algorithms to Find Community Structures in Large Networks. <i>Mathematics</i> , <b>2020</b> , 8, 2048	2.3	3
59	Evolutionary Algorithms for Community Detection in Continental-Scale High-Voltage Transmission Grids. <i>Symmetry</i> , <b>2019</b> , 11, 1472	2.7	3
58	Community detection in national-scale high voltage transmission networks using genetic algorithms. <i>Advanced Engineering Informatics</i> , <b>2018</b> , 38, 232-241	7.4	21
57	Adaptive community detection in complex networks using genetic algorithms. <i>Neurocomputing</i> , <b>2017</b> , 266, 101-113	5.4	72
56	Analysis of OpenMP and MPI implementations of meta-heuristics for vehicle routing problems. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 43, 262-275	7.5	10
55	Multi-objective evolutionary algorithms for the design of grid-connected solar tracking systems. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2014</b> , 61, 371-379	5.1	8
54	Wind turbine selection for wind farm layout using multi-objective evolutionary algorithms. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 6585-6595	7.8	66
53	The assessment of evolutionary algorithms for analyzing the positional accuracy and uncertainty of maps. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 6346-6360	7.8	7
52	Hybrid MPI/OpenMP Parallel Evolutionary Algorithms for Vehicle Routing Problems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 653-664	0.9	2
51	A Simulated Annealing-based parallel multi-objective approach to vehicle routing problems with time windows. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1696-1707	7.8	83
50	A parallel multi-objective algorithm for two-dimensional bin packing with rotations and load balancing. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 5169-5180	7.8	18
49	Scientific production of renewable energies worldwide: An overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 18, 134-143	16.2	219
48	A Pareto-based multi-objective evolutionary algorithm for automatic rule generation in network intrusion detection systems. <i>Soft Computing</i> , <b>2013</b> , 17, 255-263	3.5	32
47	Pareto-based evolutionary algorithms for the calculation of transformation parameters and accuracy assessment of historical maps. <i>Computers and Geosciences</i> , <b>2013</b> , 57, 124-132	4.5	19
46	Genetic algorithm for S-transform optimisation in the analysis and classification of electrical signal perturbations. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 6766-6777	7.8	28
45	A hybrid meta-heuristic for multi-objective vehicle routing problems with time windows. <i>Computers and Industrial Engineering</i> , <b>2013</b> , 65, 286-296	6.4	91
44	Engaging students in computer-supported cooperative learning. <i>International Journal of Learning Technology</i> , <b>2013</b> , 8, 297	0.5	3

43	Evolutionary algorithms for the design of grid-connected PV-systems. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 8086-8094	7.8	21
42	A Multi-Objective Evolutionary Algorithm for Network Intrusion Detection Systems. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 73-80	0.9	2
41	Cooperative learning and electronic group portfolio: tutoring tools, development of competences and assessment. <i>International Journal of Learning Technology</i> , <b>2011</b> , 6, 46	0.5	3
40	Multi-objective crop planning using pareto-based evolutionary algorithms. <i>Agricultural Economics (United Kingdom)</i> , <b>2011</b> , 42, 649-656	2.8	30
39	Resilience Indexes for Water Distribution Network Design: A Performance Analysis Under Demand Uncertainty. <i>Water Resources Management</i> , <b>2011</b> , 25, 2351-2366	3.7	57
38	Comparative analysis of power variables in high performance embedded and x86 architectures using GNU/Linux. <i>Computers and Electrical Engineering</i> , <b>2011</b> , 37, 541-549	4.3	6
37	Parallelism on multicore processors using Parallel.FX. <i>Advances in Engineering Software</i> , <b>2011</b> , 42, 259-266	5.6	6
36	Optimization methods applied to renewable and sustainable energy: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1753-1766	16.2	1027
35	Annealing-tabu PAES: a multi-objective hybrid meta-heuristic. <i>Optimization</i> , <b>2011</b> , 60, 1473-1491	1.2	6
34	Ant Colony Optimization for Water Distribution Network Design: A Comparative Study. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 300-307	0.9	8
33	Cryptanalysis of Hash Functions Using Advanced Multiprocessing. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 221-228		1
32	A Pareto-based memetic algorithm for optimization of looped water distribution systems. <i>Engineering Optimization</i> , <b>2010</b> , 42, 223-240	2	6
31	A memetic algorithm applied to the design of water distribution networks. <i>Applied Soft Computing Journal</i> , <b>2010</b> , 10, 261-266	7.5	57
30	Minimization of voltage deviation and power losses in power networks using Pareto optimization methods. <i>Engineering Applications of Artificial Intelligence</i> , <b>2010</b> , 23, 695-703	7.2	33
29	Multi-Objective Evolutionary Algorithms Used in Greenhouse Planning for Recycling Biomass into Energy. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 463-470		1
28	A New Memetic Algorithm for the Two-Dimensional Bin-Packing Problem with Rotations. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 541-548		1
27	Implementation of scatter search for multi-objective optimization: a comparative study. <i>Computational Optimization and Applications</i> , <b>2009</b> , 42, 421-441	1.4	23
26	Design of a Snort-Based Hybrid Intrusion Detection System. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 515-522	0.9	10

25	Optimal Design of Gravity-Fed Looped Water Distribution Networks Considering the Resilience Index. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2008</b> , 134, 234-238	2.8	36
24	Application of Several Meta-Heuristic Techniques to the Optimization of Real Looped Water Distribution Networks. <i>Water Resources Management</i> , <b>2008</b> , 22, 1367-1379	3.7	81
23	A Hybrid Meta-Heuristic for Multi-Objective Optimization: MOSATS. <i>Mathematical Modelling and Algorithms</i> , <b>2007</b> , 6, 213-230		26
22	A hybrid method for solving multi-objective global optimization problems. <i>Journal of Global Optimization</i> , <b>2007</b> , 38, 265-281	1.5	25
21	IMPROVING THE PERFORMANCE OF MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS USING THE ISLAND PARALLEL MODEL. <i>Parallel Processing Letters</i> , <b>2007</b> , 17, 127-139	0.3	3
20	A Memetic Algorithm for Water Distribution Network Design <b>2007</b> , 279-289		10
19	Parallelization of population-based multi-objective meta-heuristics: An empirical study. <i>Applied Mathematical Modelling</i> , <b>2006</b> , 30, 578-592	4.5	9
18	Adapting Multi-Objective Meta-Heuristics for Graph Partitioning <b>2006</b> , 123-132		
17	Performance Analysis of Parallel Strategies for Bi-objective Network Partitioning. <i>Advances in Intelligent and Soft Computing</i> , <b>2006</b> , 291-300		1
16	A Parallel Multilevel Metaheuristic for Graph Partitioning. <i>Journal of Heuristics</i> , <b>2004</b> , 10, 315-336	1.9	22
15	Parallel heuristic search in multilevel graph partitioning <b>2004</b> ,		4
14	Optimising Graph Partitions Using Parallel Evolution. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 91-102	0.9	
13	The load unbalancing problem for region growing image segmentation algorithms. <i>Journal of Parallel and Distributed Computing</i> , <b>2003</b> , 63, 387-395	4.4	17
12	A parallel evolutionary algorithm for circuit partitioning <b>2003</b> ,		2
11	Multilevel Heuristic Algorithm for Graph Partitioning. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 143-153	0.9	19
10	A Mixed Heuristic for Circuit Partitioning. <i>Computational Optimization and Applications</i> , <b>2002</b> , 23, 321-340	0.4	20
9	Parallel VLSI test in a shared-memory multiprocessor. <i>Concurrency and Computation: Practice and Experience</i> , <b>2000</b> , 12, 311-326		7
8	Parallel thinning algorithms on multicomputers: experimental study on load balancing. <i>Concurrency and Computation: Practice and Experience</i> , <b>2000</b> , 12, 327-340		2

7	Load balancing for a class of irregular and dynamic problems: region growing image segmentation algorithms <b>1999</b> ,		1
6	Algebraic test-pattern generation based on the Reed-Muller spectrum. <i>IEE Proceedings: Computers and Digital Techniques</i> , <b>1998</b> , 145, 308		5
5	Annealing-based heuristics and genetic algorithms for circuit partitioning in parallel test generation. <i>Future Generation Computer Systems</i> , <b>1998</b> , 14, 439-451	7.5	10
4	Load balancing in parallel circuit testing with annealing-based and genetic algorithms. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 835-844	0.9	1
3	Parallel test pattern generation using circuit partitioning in a shared-memory multiprocessor. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 167-171	0.9	1
2	Meta-heuristics for circuit partitioning in parallel test generation. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 315-323	0.9	2
1	Parallel test generation using circuit partitioning and spectral techniques		5