

# Antonio J Nebro

## List of Publications by Citations

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107  
papers

3,413  
citations

28  
h-index

57  
g-index

110  
ext. papers

4,043  
ext. citations

3.5  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
107	jMetal: A Java framework for multi-objective optimization. <i>Advances in Engineering Software</i> , <b>2011</b> , 42, 760-771	3.6	748
106	SMPSO: A new PSO-based metaheuristic for multi-objective optimization <b>2009</b> ,		276
105	AbYSS: Adapting Scatter Search to Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2008</b> , 12, 439-457	15.6	230
104	MOCeII: A cellular genetic algorithm for multiobjective optimization. <i>International Journal of Intelligent Systems</i> , <b>2009</b> , 24, 726-746	8.4	176
103	The jMetal framework for multi-objective optimization: Design and architecture <b>2010</b> ,		160
102	A survey of multi-objective metaheuristics applied to structural optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2014</b> , 49, 537-558	3.6	124
101	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2010</b> , 14, 618-635	15.6	83
100	Redesigning the jMetal Multi-Objective Optimization Framework <b>2015</b> ,		82
99	The incidence of rheumatoid arthritis in Spain: results from a nationwide primary care registry. <i>Rheumatology</i> , <b>2008</b> , 47, 1088-92	3.9	76
98	Multi-Objective Particle Swarm Optimizers: An Experimental Comparison. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 495-509	0.9	73
97	Heterogeneous Computing and Parallel Genetic Algorithms. <i>Journal of Parallel and Distributed Computing</i> , <b>2002</b> , 62, 1362-1385	4.4	65
96	jMetalPy: A Python framework for multi-objective optimization with metaheuristics. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 51, 100598	9.8	64
95	A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs. <i>Computer Communications</i> , <b>2007</b> , 30, 685-697	5.1	64
94	A study of the bi-objective next release problem. <i>Empirical Software Engineering</i> , <b>2011</b> , 16, 29-60	3.3	49
93	A novel multi-objective evolutionary algorithm with fuzzy logic based adaptive selection of operators: FAME. <i>Information Sciences</i> , <b>2019</b> , 471, 233-251	7.7	49
92	Multi-objective optimization using metaheuristics: non-standard algorithms. <i>International Transactions in Operational Research</i> , <b>2012</b> , 19, 283-305	2.9	45
91	Why Is Optimization Difficult?. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 1-50	0.8	45

90	Design Issues in a Multiobjective Cellular Genetic Algorithm <b>2007</b> , 126-140		41
89	Solving molecular flexible docking problems with metaheuristics: A comparative study. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 28, 379-393	7.5	40
88	. <i>Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on</i> , <b>2008</b> ,		40
87	Parallel heterogeneous genetic algorithms for continuous optimization. <i>Parallel Computing</i> , <b>2004</b> , 30, 699-719	1	39
86	Achieving super-linear performance in parallel multi-objective evolutionary algorithms by means of cooperative coevolution. <i>Computers and Operations Research</i> , <b>2013</b> , 40, 1552-1563	4.6	36
85	A Study of the Multi-objective Next Release Problem <b>2009</b> ,		35
84	On the Effect of the Steady-State Selection Scheme in Multi-Objective Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 183-197	0.9	35
83	A Tutorial On the design, experimentation and application of metaheuristic algorithms to real-World optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 64, 100888	9.8	33
82	ACO vs EAs for solving a real-world frequency assignment problem in GSM networks <b>2007</b> ,		31
81	DNA fragment assembly using a grid-based genetic algorithm. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 2776-2790	4.6	30
80	Optimal antenna placement using a new multi-objective chc algorithm <b>2007</b> ,		28
79	Using multi-objective metaheuristics to solve the software project scheduling problem <b>2011</b> ,		25
78	Optimization algorithms for large-scale real-world instances of the frequency assignment problem. <i>Soft Computing</i> , <b>2011</b> , 15, 975-990	3.5	25
77	jMetalCpp: optimizing molecular docking problems with a C++ metaheuristic framework. <i>Bioinformatics</i> , <b>2014</b> , 30, 437-8	7.2	24
76	Convergence speed in multi-objective metaheuristics: Efficiency criteria and empirical study. <i>International Journal for Numerical Methods in Engineering</i> , <b>2010</b> , 84, 1344-1375	2.4	24
75	jMetalSP: A framework for dynamic multi-objective big data optimization. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 69, 737-748	7.5	23
74	A Study of the Parallelization of the Multi-Objective Metaheuristic MOEA/D. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 303-317	0.9	23
73	Multi-Objective Optimization using Grid Computing. <i>Soft Computing</i> , <b>2007</b> , 11, 531-540	3.5	22

72	Observations in using Grid-enabled technologies for solving multi-objective optimization problems. <i>Parallel Computing</i> , <b>2006</b> , 32, 377-393	1	21
71	Solving molecular docking problems with multi-objective metaheuristics. <i>Molecules</i> , <b>2015</b> , 20, 10154-83	4.8	20
70	Metaheuristics for solving a real-world frequency assignment problem in GSM networks <b>2008</b> ,		20
69	Solving large-scale real-world telecommunication problems using a grid-based genetic algorithm. <i>Engineering Optimization</i> , <b>2008</b> , 40, 1067-1084	2	19
68	Analysis of leader selection strategies in a multi-objective Particle Swarm Optimizer <b>2013</b> ,		18
67	A Study of Convergence Speed in Multi-objective Metaheuristics. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 763-772	0.9	18
66	InDM2: Interactive Dynamic Multi-Objective Decision Making Using Evolutionary Algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 40, 184-195	9.8	16
65	Evolutionary algorithms for solving the automatic cell planning problem: a survey. <i>Engineering Optimization</i> , <b>2010</b> , 42, 671-690	2	16
64	A comparative study of the effect of parameter scalability in multi-objective metaheuristics <b>2008</b> ,		15
63	New Ideas in Applying Scatter Search to Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 443-458	0.9	15
62	Multi-objective Big Data Optimization with jMetal and Spark. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 16-30	0.9	13
61	BIGOWL: Knowledge centered Big Data analytics. <i>Expert Systems With Applications</i> , <b>2019</b> , 115, 543-556	7.8	12
60	Parallel Multiobjective Optimization <b>2005</b> , 371-394		12
59	Distribution of Computational Effort in Parallel MOEA/D. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 488-502		12
58	M2Align: parallel multiple sequence alignment with a multi-objective metaheuristic. <i>Bioinformatics</i> , <b>2017</b> , 33, 3011-3017	7.2	11
57	Analyze, Sense, Preprocess, Predict, Implement, and Deploy (ASPPID): An incremental methodology based on data analytics for cost-efficiently monitoring the industry 4.0. <i>Engineering Applications of Artificial Intelligence</i> , <b>2019</b> , 82, 30-43	7.2	10
56	Structural design using multi-objective metaheuristics. Comparative study and application to a real-world problem. <i>Structural and Multidisciplinary Optimization</i> , <b>2016</b> , 53, 545-566	3.6	10
55	Multi-objective Cooperative Coevolutionary Evolutionary Algorithms for Continuous and Combinatorial Optimization. <i>Studies in Computational Intelligence</i> , <b>2011</b> , 49-74	0.8	10

54	Molecular Docking Optimization in the Context of Multi-Drug Resistant and Sensitive EGFR Mutants. <i>Molecules</i> , <b>2016</b> , 21,	4.8	9
53	MO-Phylogenetics: a phylogenetic inference software tool with multi-objective evolutionary metaheuristics. <i>Methods in Ecology and Evolution</i> , <b>2016</b> , 7, 800-805	7.7	9
52	Comparing multi-objective metaheuristics for solving a three-objective formulation of multiple sequence alignment. <i>Progress in Artificial Intelligence</i> , <b>2017</b> , 6, 195-210	4	8
51	Bio-inspired optimization for the molecular docking problem: State of the art, recent results and perspectives. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 79, 30-45	7.5	8
50	Parallel Evolutionary Multiobjective Optimization <b>2006</b> , 33-56		8
49	Evolutionary Algorithms for Real-World Instances of the Automatic Frequency Planning Problem in GSM Networks. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 108-120	0.9	8
48	A New Multi-objective Approach for Molecular Docking Based on RMSD and Binding Energy. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 65-77	0.9	7
47	Multi-objective ligand-protein docking with particle swarm optimizers. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 439-452	9.8	7
46	A Study of the Combination of Variation Operators in the NSGA-II Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 269-278	0.9	7
45	On the Effect of Applying a Steady-State Selection Scheme in the Multi-Objective Genetic Algorithm NSGA-II. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 435-456	0.8	7
44	Distributed Multi-Objective Metaheuristics for Real-World Structural Optimization Problems. <i>Computer Journal</i> , <b>2016</b> , 59, 777-792	1.3	6
43	Integrating a multi-objective optimization framework into a structural design software. <i>Advances in Engineering Software</i> , <b>2014</b> , 76, 161-170	3.6	6
42	Multi-objective metaheuristics for preprocessing EEG data in brain-computer interfaces. <i>Engineering Optimization</i> , <b>2012</b> , 44, 373-390	2	6
41	Optimizing the DFCN Broadcast Protocol with a Parallel Cooperative Strategy of Multi-Objective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 305-319	0.9	6
40	Multiple Sequence Alignment with Multiobjective Metaheuristics. A Comparative Study. <i>International Journal of Intelligent Systems</i> , <b>2017</b> , 32, 843-861	8.4	5
39	On the design of a framework integrating an optimization engine with streaming technologies. <i>Future Generation Computer Systems</i> , <b>2020</b> , 107, 538-550	7.5	5
38	Parallel Heterogeneous Metaheuristics <b>2005</b> , 395-422		5
37	A Multi-objective Optimization Framework for Multiple Sequence Alignment with Metaheuristics. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 245-256	0.9	4

36	Merge Nondominated Sorting Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	4
35	Automatic configuration of NSGA-II with jMetal and irace <b>2019</b> ,		4
34	Dynamic Multi-Objective Optimization with jMetal and Spark: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 106-117	0.9	4
33	Artificial Decision Maker Driven by PSO: An Approach for Testing Reference Point Based Interactive Methods. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 274-285	0.9	4
32	Optimal Broadcasting in Metropolitan MANETs Using Multiobjective Scatter Search. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 255-266	0.9	4
31	Inference of gene regulatory networks with multi-objective cellular genetic algorithm. <i>Computational Biology and Chemistry</i> , <b>2019</b> , 80, 409-418	3.6	3
30	QomA New Hydrologic Prediction Model Enhanced with Multi-Objective Optimization. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 251	2.6	3
29	An efficient local improvement operator for the multi-objective wireless sensor network deployment problem. <i>Engineering Optimization</i> , <b>2011</b> , 43, 1115-1139	2	3
28	Energy-Aware Multi-Objective Job Shop Scheduling Optimization with Metaheuristics in Manufacturing Industries: A Critical Survey, Results, and Perspectives. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1491	2.6	3
27	Extending the Speed-Constrained Multi-objective PSO (SMPSO) with Reference Point Based Preference Articulation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 298-310	0.9	3
26	Injecting domain knowledge in multi-objective optimization problems: A semantic approach. <i>Computer Standards and Interfaces</i> , <b>2021</b> , 78, 103546	3.5	3
25	Design and architecture of the jMetalSP framework <b>2017</b> ,		2
24	On the Velocity Update in Multi-Objective Particle Swarm Optimizers. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 45-62	0.8	2
23	Reconstruction of gene regulatory networks with multi-objective particle swarm optimisers. <i>Applied Intelligence</i> , <b>2021</b> , 51, 1972-1991	4.9	2
22	Multi-Objective Optimization of Bike Routes for Last-Mile Package Delivery with Drop-Offs <b>2018</b> ,		2
21	About Designing an Observer Pattern-Based Architecture for a Multi-objective Metaheuristic Optimization Framework. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 50-60	0.8	2
20	Multi-objective Design of Time-Constrained Bike Routes Using Bio-inspired Meta-heuristics. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 197-210	0.9	2
19	TITAN: A knowledge-based platform for Big Data workflow management. <i>Knowledge-Based Systems</i> , <b>2021</b> , 232, 107489	7.3	2

18	A Study of Archiving Strategies in Multi-objective PSO for Molecular Docking. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 40-52	0.9	1
17	Integrating an entry consistency memory model and concurrent object-oriented programming. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 567-571	0.9	1
16	Applying Evolutionary Algorithms to Solve the Automatic Frequency Planning Problem 271-286		1
15	New Technologies in Parallelism <b>2005</b> , 63-78		1
14	A Scatter Search Approach for Solving the Automatic Cell Planning Problem. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 334-342	0.9	1
13	A multi-objective interactive dynamic particle swarm optimizer. <i>Progress in Artificial Intelligence</i> , <b>2020</b> , 9, 55-65	4	1
12	Sequoia: multiobjective multiple sequence alignment in Python. <i>Bioinformatics</i> , <b>2020</b> , 36, 3892-3893	7.2	1
11	Scalable Inference of Gene Regulatory Networks with the Spark Distributed Computing Platform. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 61-70	0.8	1
10	Decision Making in Industry 4.0 Scenarios Supported by Imbalanced Data Classification. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 121-134	0.8	1
9	Multi-objective Optimization of a Two-stage Membrane Process with Metaheuristics. <i>Procedia Engineering</i> , <b>2012</b> , 44, 2056-2058		
8	DNA Fragment Assembly Using Grid Systems 357-374		
7	Applying Distributed Shared Memory Techniques for Implementing Distributed Objects. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 499-506	0.9	
6	.NET as a Platform for Implementing Concurrent Objects. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 125-129		
5	MORPHY: A Multiobjective Software Tool for Phylogenetic Inference of Protein Coded Sequences. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 719-731	0.4	
4	Evaluating a Multithreaded Runtime System for Concurrent Object-Oriented Languages. <i>Lecture Notes in Computer Science</i> , <b>1998</b> , 167-174	0.9	
3	Optimizing ligand conformations in flexible protein targets: a multi-objective strategy. <i>Soft Computing</i> , <b>2020</b> , 24, 10705-10719	3.5	
2	Evolving a Multi-objective Optimization Framework. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2021</b> , 175-198	1.8	
1	Multi-objective Metaheuristics for a Flexible Ligand-Macromolecule Docking Problem in Computational Biology. <i>Studies in Computational Intelligence</i> , <b>2018</b> , 369-379	0.8	

