Manuel Lpez-Ibez

List of Publications by Citations

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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.

96 papers	2,279 citations	22 h-index	46 g-index
114 ext. papers	2,806 ext. citations	2.6 avg, IF	5.48 L-index

#	Paper	IF	Citations
96	The irace package: Iterated racing for automatic algorithm configuration. *Operations Research Perspectives*, **2016**, 3, 43-58	2.1	561
95	. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 1075-1082	15.6	182
94	Ant Colony Optimization for Optimal Control of Pumps in Water Distribution Networks. *Journal of Water Resources Planning and Management - ASCE*, **2008**, 134, 337-346	2.8	146
93	The Automatic Design of Multiobjective Ant Colony Optimization Algorithms. *IEEE Transactions on Evolutionary Computation*, **2012**, 16, 861-875	15.6	130
92	Beam-ACO for the travelling salesman problem with time windows. *Computers and Operations Research*, **2010**, 37, 1570-1583	4.6	84
91	A hybrid TP+PLS algorithm for bi-objective flow-shop scheduling problems. *Computers and Operations Research*, **2011**, 38, 1219-1236	4.6	75
90	Exploratory Analysis of Stochastic Local Search Algorithms in Biobjective Optimization **2010**, 209-222		55
89	Hybrid Population-Based Algorithms for the Bi-Objective Quadratic Assignment Problem. *Mathematical Modelling and Algorithms*, **2006**, 5, 111-137		51
88	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 403-417	15.6	48
87	Construct, Merge, Solve & Adapt A new general algorithm for combinatorial optimization. *Computers and Operations Research*, **2016**, 68, 75-88	4.6	46
86	The travelling salesman problem with time windows: Adapting algorithms from travel-time to makespan optimization. *Applied Soft Computing Journal*, **2013**, 13, 3806-3815	7.5	46
85	Anytime Pareto local search. *European Journal of Operational Research*, **2015**, 243, 369-385	5.6	43
84	Automatically improving the anytime behaviour of optimisation algorithms. *European Journal of Operational Research*, **2014**, 235, 569-582	5.6	42
83	Parameter Adaptation in Ant Colony Optimization **2011**, 191-215		42
82	Beam search for the longest common subsequence problem. *Computers and Operations Research*, **2009**, 36, 3178-3186	4.6	41
81	An experimental analysis of design choices of multi-objective ant colony optimization algorithms. *Swarm Intelligence*, **2012**, 6, 207-232	3	32
80	Grammar-based generation of stochastic local search heuristics through automatic algorithm configuration tools. *Computers and Operations Research*, **2014**, 51, 190-199	4.6	31

79	On the Design of ACO for the Biobjective Quadratic Assignment Problem. *Lecture Notes in Computer Science*, **2004**, 214-225	0.9	26
78	Automatic Configuration of Multi-Objective ACO Algorithms. *Lecture Notes in Computer Science*, **2010**, 95-106	0.9	24
77	Improving the anytime behavior of two-phase local search. *Annals of Mathematics and Artificial Intelligence*, **2011**, 61, 125-154	0.8	23
76	AClib: A Benchmark Library for Algorithm Configuration. *Lecture Notes in Computer Science*, **2014**, 36-40	0.9	23
75	Automated Design of Metaheuristic Algorithms. *Profiles in Operations Research*, **2019**, 541-579	1	23
74	On Sequential Online Archiving of Objective Vectors. *Lecture Notes in Computer Science*, **2011**, 46-60	0.9	22
73	On the Computation of the Empirical Attainment Function. *Lecture Notes in Computer Science*, **2011** , 106-120	0.9	20
72	Automatic Design of Hybrid Stochastic Local Search Algorithms. *Lecture Notes in Computer Science*, **2013**, 144-158	0.9	20
71	Representations and evolutionary operators for the scheduling of pump operations in water distribution networks. *Evolutionary Computation*, **2011**, 19, 429-67	4.3	19
70	Automatically Improving the Anytime Behaviour of Multiobjective Evolutionary Algorithms. *Lecture Notes in Computer Science*, **2013**, 825-840	0.9	18
69	An Empirical Assessment of the Properties of Inverted Generational Distance on Multi- and Many-Objective Optimization. *Lecture Notes in Computer Science*, **2017**, 31-45	0.9	17
68	Improved performance of crystal structure solution from powder diffraction data through parameter tuning of a simulated annealing algorithm. *Journal of Applied Crystallography*, **2017**, 50, 1411-1420	3.8	16
67	Reliable simulation-optimization of traffic lights in a real-world city. *Applied Soft Computing Journal*, **2019**, 78, 697-711	7.5	16
66	Ant colony optimization on a limited budget of evaluations. *Swarm Intelligence*, **2015**, 9, 103-124	3	16
65	A Concise Overview of Applications of Ant Colony Optimization **2011**,		16
64	Advantages of Task-Specific Multi-Objective Optimisation in Evolutionary Robotics. *PLoS ONE*, **2015** , 10, e0136406	3.7	16
63	Ant Colony Optimization: A Component-Wise Overview **2016**, 1-37		15
62	A Large-Scale Experimental Evaluation of High-Performing Multi- and Many-Objective Evolutionary Algorithms. *Evolutionary Computation*, **2018**, 26, 621-656	4.3	14

61	Automatic Design of Evolutionary Algorithms for Multi-Objective Combinatorial Optimization. *Lecture Notes in Computer Science*, **2014**, 508-517	0.9	14
60	Combining Two Search Paradigms for Multi-objective Optimization: Two-Phase and Pareto Local Search. *Studies in Computational Intelligence*, **2013**, 97-117	0.8	13
59	The impact of design choices of multiobjective antcolony optimization algorithms on performance **2010**,		13
58	From Grammars to Parameters: Automatic Iterated Greedy Design for the Permutation Flow-Shop Problem with Weighted Tardiness. *Lecture Notes in Computer Science*, **2013**, 321-334	0.9	12
57	Deep reinforcement learning based parameter control in differential evolution **2019**,		11
56	Machine Decision Makers as a Laboratory for Interactive EMO. *Lecture Notes in Computer Science*, **2015**, 295-309	0.9	10
55	Beam-ACO Based on Stochastic Sampling for Makespan Optimization Concerning the TSP with Time Windows. *Lecture Notes in Computer Science*, **2009**, 97-108	0.9	10
54	Effective Hybrid Stochastic Local Search Algorithms for Biobjective Permutation Flowshop Scheduling. *Lecture Notes in Computer Science*, **2009**, 100-114	0.9	10
53	An Analysis of Algorithmic Components for Multiobjective Ant Colony Optimization: A Case Study on the Biobjective TSP. *Lecture Notes in Computer Science*, **2010**, 134-145	0.9	9
52	Automatic configuration of state-of-the-art multi-objective optimizers using the TP+PLS framework **2011**,		9
51	Automatically Designing State-of-the-Art Multi- and Many-Objective Evolutionary Algorithms. *Evolutionary Computation*, **2020**, 28, 195-226	4.3	9
50	Automatic (Offline) Configuration of Algorithms **2015**,		8
49	An Experimental Study of Adaptive Capping in irace. *Lecture Notes in Computer Science*, **2017**, 235-250	0.9	8
48	On Dealing with Uncertainties from Kriging Models in Offline Data-Driven Evolutionary Multiobjective Optimization. *Lecture Notes in Computer Science*, **2019**, 463-474	0.9	7
47	Comparing Decomposition-Based and Automatically Component-Wise Designed Multi-Objective Evolutionary Algorithms. *Lecture Notes in Computer Science*, **2015**, 396-410	0.9	7
46	Deconstructing Multi-objective Evolutionary Algorithms: An Iterative Analysis on the Permutation Flow-Shop Problem. *Lecture Notes in Computer Science*, **2014**, 157-172	0.9	7
45	Experimental Analysis of Pheromone-Based Heuristic Column Generation Using irace. *Lecture Notes in Computer Science*, **2013**, 92-106	0.9	7
44	Pareto Local Search Algorithms for Anytime Bi-objective Optimization. *Lecture Notes in Computer Science*, **2012**, 206-217	0.9	6

43	Automatic Generation of Multi-objective ACO Algorithms for the Bi-objective Knapsack. *Lecture Notes in Computer Science*, **2012**, 37-48	0.9	6
42	On the Anytime Behavior of IPOP-CMA-ES. *Lecture Notes in Computer Science*, **2012**, 357-366	0.9	6
41	On Pareto Local Optimal Solutions Networks. *Lecture Notes in Computer Science*, **2018**, 232-244	0.9	6
40	Ant Colony Optimization: A Component-Wise Overview **2018**, 371-407		6
39	Automatic surrogate modelling technique selection based on features of optimization problems **2019**,		5
38	**2011**,		5
37	Reproducibility in Evolutionary Computation. *ACM Transactions on Evolutionary Learning*, **2021**, 1, 1-21		5
36	Ant Colony Optimization on a Budget of 1000. *Lecture Notes in Computer Science*, **2014**, 50-61	0.9	5
35	Archiver effects on the performance of state-of-the-art multi- and many-objective evolutionary algorithms **2019**,		4
34	Automatic configuration of NSGA-II with jMetal and irace **2019**,		4
33	Adaptive Anytime Two-Phase Local Search. *Lecture Notes in Computer Science*, **2010**, 52-67	0.9	4
32	Predicting tweet impact using a novel evidential reasoning prediction method. *Expert Systems With Applications*, **2021**, 169, 114400	7.8	4
31	Automatic Configuration of Multi-objective Optimizers and Multi-objective Configuration. *Studies in Computational Intelligence*, **2020**, 69-92	0.8	3
30	An Analysis of Parameters of irace. *Lecture Notes in Computer Science*, **2014**, 37-48	0.9	3
29	Dominance, epsilon, and hypervolume local optimal sets in multi-objective optimization, and how to tell the difference **2018**,		2
28	A template for designing single-solution hybrid metaheuristics **2014**,		2
27	Automatic (offline) configuration of algorithms **2013**,		2
26	Graphical tools for the analysis of bi-objective optimization algorithms **2010**,		2

25	Innovative Soil Reinforcement Method to Control Static and Seismic Settlements **2009**,		2
24	Using Experimental Design to Analyze Stochastic Local Search Algorithms for Multiobjective Problems **2007**, 325-344		2
23	Performance Assessment of Recursive Probability Matching for Adaptive Operator Selection in Differential Evolution. *Lecture Notes in Computer Science*, **2018**, 321-333	0.9	2
22	Capping methods for the automatic configuration of optimization algorithms. *Computers and Operations Research*, **2021**, 139, 105615	4.6	2
21	Local Optimal Sets and Bounded Archiving on Multi-objective NK-Landscapes with Correlated Objectives. *Lecture Notes in Computer Science*, **2014**, 621-630	0.9	2
20	To DE or Not to DE? Multi-objective Differential Evolution Revisited from a Component-Wise Perspective. *Lecture Notes in Computer Science*, **2015**, 48-63	0.9	2
19	Runtime Analysis of Simple Interactive Evolutionary Biobjective Optimization Algorithms. *Lecture Notes in Computer Science*, **2012**, 123-132	0.9	2
18	General Northern English. Exploring Regional Variation in the North of England With Machine Learning. *Frontiers in Artificial Intelligence*, **2020**, 3, 48	3	2
17	Latin Hypercube Designs with Branching and Nested Factors for Initialization of Automatic Algorithm Configuration. *Evolutionary Computation*, **2019**, 27, 129-145	4.3	2
16	Visualizations for decision support in scenario-based multiobjective optimization. *Information Sciences*, **2021**, 578, 1-21	7.7	2
15	Safe Learning and Optimization Techniques: Towards a Survey of the State of the Art. *Lecture Notes in Computer Science*, **2021**, 123-139	0.9	2
14	Automatic (Offline) Configuration of Algorithms **2016**,		1
13	Pre-scheduled and adaptive parameter variation in MAX-MIN Ant System **2010**,		1
12	Towards an Emotion-Driven Adaptive System for Video Game Music. *Lecture Notes in Computer Science*, **2018**, 360-367	0.9	1
11	An Analysis of Local Search for the Bi-objective Bidimensional Knapsack Problem. *Lecture Notes in Computer Science*, **2013**, 85-96	0.9	1
10	Unbalanced mallows models for optimizing expensive black-box permutation problems **2021**,		1
9	Incorporating decision-makers preferences into the automatic configuration of bi-objective optimisation algorithms. *European Journal of Operational Research*, **2021**, 289, 1209-1222	5.6	1
8	A Multi-objective Multi-type Facility Location Problem for the Delivery of Personalised Medicine. *Lecture Notes in Computer Science*, **2021**, 388-403	0.9	1

7	Hybridization of Racing Methods with Evolutionary Operators for Simulation Optimization of Traffic Lights Programs. *Lecture Notes in Computer Science*, **2021**, 17-33	0.9	1
6	ACVIZ: A tool for the visual analysis of the configuration of algorithms with irace. *Operations Research Perspectives*, **2021**, 8, 100186	2.1	1
5	The Asteroid Routing Problem: A Benchmark for Expensive Black-Box Permutation Optimization. *Lecture Notes in Computer Science*, **2022**, 124-140	0.9	0
4	ANTS 2016 special issue: Editorial. *Swarm Intelligence*, **2017**, 11, 181-183	3	
3	Algorithm Comparison by Automatically Configurable Stochastic Local Search Frameworks: A Case Study Using Flow-Shop Scheduling Problems. *Lecture Notes in Computer Science*, **2014**, 30-44	0.9	
2	Beam-ACO Based on Stochastic Sampling: A Case Study on the TSP with Time Windows. *Lecture Notes in Computer Science*, **2009**, 59-73	0.9	
1	New Initialisation Techniques for Multi-objective Local Search. *Lecture Notes in Computer Science*, **2018**, 323-334	0.9	