Manuel Lpez-Ibez

List of Publications by Year in Descending Order

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 Asteroid Routing Problem: A Benchmark for Expensive Black-Box Permutation Optimization. *Lecture Notes in Computer Science*, **2022**, 124-140	0.9	0
95	Reproducibility in Evolutionary Computation. *ACM Transactions on Evolutionary Learning*, **2021**, 1, 1-21		5
94	Capping methods for the automatic configuration of optimization algorithms. *Computers and Operations Research*, **2021**, 139, 105615	4.6	2
93	Unbalanced mallows models for optimizing expensive black-box permutation problems **2021**,		1
92	Incorporating decision-maker preferences into the automatic configuration of bi-objective optimisation algorithms. *European Journal of Operational Research*, **2021**, 289, 1209-1222	5.6	1
91	Predicting tweet impact using a novel evidential reasoning prediction method. *Expert Systems With Applications*, **2021**, 169, 114400	7.8	4
90	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
89	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
88	Visualizations for decision support in scenario-based multiobjective optimization. *Information Sciences*, **2021**, 578, 1-21	7.7	2
87	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
86	ACVIZ: A tool for the visual analysis of the configuration of algorithms with irace. *Operations Research Perspectives*, **2021**, 8, 100186	2.1	1
85	Automatic Configuration of Multi-objective Optimizers and Multi-objective Configuration. *Studies in Computational Intelligence*, **2020**, 69-92	0.8	3
84	General Northern English. Exploring Regional Variation in the North of England With Machine Learning. *Frontiers in Artificial Intelligence*, **2020**, 3, 48	3	2
83	Automatically Designing State-of-the-Art Multi- and Many-Objective Evolutionary Algorithms. *Evolutionary Computation*, **2020**, 28, 195-226	4.3	9
82	Deep reinforcement learning based parameter control in differential evolution **2019**,		11
81	Archiver effects on the performance of state-of-the-art multi- and many-objective evolutionary algorithms **2019**,		4
80	Reliable simulation-optimization of traffic lights in a real-world city. *Applied Soft Computing Journal*, **2019**, 78, 697-711	7.5	16

79	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
78	Automatic configuration of NSGA-II with jMetal and irace **2019**,		4
77	Automatic surrogate modelling technique selection based on features of optimization problems **2019**,		5
76	Latin Hypercube Designs with Branching and Nested Factors for Initialization of Automatic Algorithm Configuration. *Evolutionary Computation*, **2019**, 27, 129-145	4.3	2
75	Automated Design of Metaheuristic Algorithms. *Profiles in Operations Research*, **2019**, 541-579	1	23
74	A Large-Scale Experimental Evaluation of High-Performing Multi- and Many-Objective Evolutionary Algorithms. *Evolutionary Computation*, **2018**, 26, 621-656	4.3	14
73	Dominance, epsilon, and hypervolume local optimal sets in multi-objective optimization, and how to tell the difference **2018**,		2
72	Performance Assessment of Recursive Probability Matching for Adaptive Operator Selection in Differential Evolution. *Lecture Notes in Computer Science*, **2018**, 321-333	0.9	2
71	Towards an Emotion-Driven Adaptive System for Video Game Music. *Lecture Notes in Computer Science*, **2018**, 360-367	0.9	1
70	New Initialisation Techniques for Multi-objective Local Search. *Lecture Notes in Computer Science*, **2018**, 323-334	0.9	
69	On Pareto Local Optimal Solutions Networks. *Lecture Notes in Computer Science*, **2018**, 232-244	0.9	6
68	Ant Colony Optimization: A Component-Wise Overview **2018**, 371-407		6
67	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
66	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
65	ANTS 2016 special issue: Editorial. *Swarm Intelligence*, **2017**, 11, 181-183	3	
64	An Experimental Study of Adaptive Capping in irace. *Lecture Notes in Computer Science*, **2017**, 235-250	0.9	8
63	The irace package: Iterated racing for automatic algorithm configuration. *Operations Research Perspectives*, **2016**, 3, 43-58	2.1	561
62	Automatic (Offline) Configuration of Algorithms **2016**,		1

61	Construct, Merge, Solve & Adapt A new general algorithm for combinatorial optimization. *Computers and Operations Research*, **2016**, 68, 75-88	4.6	46
60	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 403-417	15.6	48
59	Ant Colony Optimization: A Component-Wise Overview **2016**, 1-37		15
58	Automatic (Offline) Configuration of Algorithms **2015**,		8
57	Ant colony optimization on a limited budget of evaluations. *Swarm Intelligence*, **2015**, 9, 103-124	3	16
56	Comparing Decomposition-Based and Automatically Component-Wise Designed Multi-Objective Evolutionary Algorithms. *Lecture Notes in Computer Science*, **2015**, 396-410	0.9	7
55	Anytime Pareto local search. *European Journal of Operational Research*, **2015**, 243, 369-385	5.6	43
54	Advantages of Task-Specific Multi-Objective Optimisation in Evolutionary Robotics. *PLoS ONE*, **2015**, 10, e0136406	3.7	16
53	Machine Decision Makers as a Laboratory for Interactive EMO. *Lecture Notes in Computer Science*, **2015**, 295-309	0.9	10
52	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
51	Automatically improving the anytime behaviour of optimisation algorithms. *European Journal of Operational Research*, **2014**, 235, 569-582	5.6	42
50	Grammar-based generation of stochastic local search heuristics through automatic algorithm configuration tools. *Computers and Operations Research*, **2014**, 51, 190-199	4.6	31
49	A template for designing single-solution hybrid metaheuristics **2014**,		2
48	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	
47	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
46	AClib: A Benchmark Library for Algorithm Configuration. *Lecture Notes in Computer Science*, **2014**, 36-40	0.9	23
45	Ant Colony Optimization on a Budget of 1000. *Lecture Notes in Computer Science*, **2014**, 50-61	0.9	5
44	Automatic Design of Evolutionary Algorithms for Multi-Objective Combinatorial Optimization. *Lecture Notes in Computer Science*, **2014**, 508-517	0.9	14

43	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
42	An Analysis of Parameters of irace. *Lecture Notes in Computer Science*, **2014**, 37-48	0.9	3
41	Combining Two Search Paradigms for Multi-objective Optimization: Two-Phase and Pareto Local Search. *Studies in Computational Intelligence*, **2013**, 97-117	0.8	13
40	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
39	Automatic (offline) configuration of algorithms **2013**,		2
38	Automatically Improving the Anytime Behaviour of Multiobjective Evolutionary Algorithms. *Lecture Notes in Computer Science*, **2013**, 825-840	0.9	18
37	Automatic Design of Hybrid Stochastic Local Search Algorithms. *Lecture Notes in Computer Science*, **2013**, 144-158	0.9	20
36	Experimental Analysis of Pheromone-Based Heuristic Column Generation Using irace. *Lecture Notes in Computer Science*, **2013**, 92-106	0.9	7
35	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
34	An Analysis of Local Search for the Bi-objective Bidimensional Knapsack Problem. *Lecture Notes in Computer Science*, **2013**, 85-96	0.9	1
33	An experimental analysis of design choices of multi-objective ant colony optimization algorithms. *Swarm Intelligence*, **2012**, 6, 207-232	3	32
32	The Automatic Design of Multiobjective Ant Colony Optimization Algorithms. *IEEE Transactions on Evolutionary Computation*, **2012**, 16, 861-875	15.6	130
31	Pareto Local Search Algorithms for Anytime Bi-objective Optimization. *Lecture Notes in Computer Science*, **2012**, 206-217	0.9	6
30	Automatic Generation of Multi-objective ACO Algorithms for the Bi-objective Knapsack. *Lecture Notes in Computer Science*, **2012**, 37-48	0.9	6
29	On the Anytime Behavior of IPOP-CMA-ES. *Lecture Notes in Computer Science*, **2012**, 357-366	0.9	6
28	Runtime Analysis of Simple Interactive Evolutionary Biobjective Optimization Algorithms. *Lecture Notes in Computer Science*, **2012**, 123-132	0.9	2
27	A Concise Overview of Applications of Ant Colony Optimization **2011**,		16
26	Improving the anytime behavior of two-phase local search. *Annals of Mathematics and Artificial Intelligence*, **2011**, 61, 125-154	0.8	23

25	A hybrid TP+PLS algorithm for bi-objective flow-shop scheduling problems. *Computers and Operations Research*, **2011**, 38, 1219-1236	4.6	75
24	Automatic configuration of state-of-the-art multi-objective optimizers using the TP+PLS framework **2011**,		9
23	Representations and evolutionary operators for the scheduling of pump operations in water distribution networks. *Evolutionary Computation*, **2011**, 19, 429-67	4.3	19
22	**2011**,		5
21	Parameter Adaptation in Ant Colony Optimization **2011**, 191-215		42
20	On Sequential Online Archiving of Objective Vectors. *Lecture Notes in Computer Science*, **2011**, 46-60	0.9	22
19	On the Computation of the Empirical Attainment Function. *Lecture Notes in Computer Science*, **2011**, 106-120	0.9	20
18	Pre-scheduled and adaptive parameter variation in MAX-MIN Ant System **2010**,		1
17	Graphical tools for the analysis of bi-objective optimization algorithms **2010**,		2
16	The impact of design choices of multiobjective antcolony optimization algorithms on performance **2010**,		13
15	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
14	Beam-ACO for the travelling salesman problem with time windows. *Computers and Operations Research*, **2010**, 37, 1570-1583	4.6	84
13	Exploratory Analysis of Stochastic Local Search Algorithms in Biobjective Optimization **2010**, 209-222		55
12	Adaptive Anytime Two-Phase Local Search. *Lecture Notes in Computer Science*, **2010**, 52-67	0.9	4
11	Automatic Configuration of Multi-Objective ACO Algorithms. *Lecture Notes in Computer Science*, **2010**, 95-106	0.9	24
10	. *IEEE Transactions on Evolutionary Computation*, **2009**, 13, 1075-1082	15.6	182
9	Beam search for the longest common subsequence problem. *Computers and Operations Research*, **2009**, 36, 3178-3186	4.6	41
8	Innovative Soil Reinforcement Method to Control Static and Seismic Settlements **2009**,		2

7	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
6	Effective Hybrid Stochastic Local Search Algorithms for Biobjective Permutation Flowshop Scheduling. *Lecture Notes in Computer Science*, **2009**, 100-114	0.9	10
5	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	
4	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
3	Using Experimental Design to Analyze Stochastic Local Search Algorithms for Multiobjective Problems **2007**, 325-344		2
2	Hybrid Population-Based Algorithms for the Bi-Objective Quadratic Assignment Problem. *Mathematical Modelling and Algorithms*, **2006**, 5, 111-137		51
1	On the Design of ACO for the Biobjective Quadratic Assignment Problem. *Lecture Notes in Computer Science*, **2004**, 214-225	0.9	26