

Arnaud Liefoghe

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.

84 papers	792 citations	15 h-index	24 g-index
101 ext. papers	944 ext. citations	2 avg, IF	4.25 L-index

#	Paper	IF	Citations
84	What if we increase the number of objectives? Theoretical and empirical implications for many-objective combinatorial optimization. <i>Computers and Operations Research</i> , 2022 , 105857	4.6	1
83	A model of anytime algorithm performance for bi-objective optimization. <i>Journal of Global Optimization</i> , 2021 , 79, 329-350	1.5	3
82	Decomposition-Based Multi-objective Landscape Features and Automated Algorithm Selection. <i>Lecture Notes in Computer Science</i> , 2021 , 34-50	0.9	1
81	Understanding Population Dynamics in Multi- and Many-Objective Evolutionary Algorithms for High-Resolution Approximations. <i>Advances in Operations Research</i> , 2021 , 2021, 1-16	1.3	
80	Algorithm selection of anytime algorithms 2020 ,		5
79	On the Design of a Partition Crossover for the Quadratic Assignment Problem. <i>Lecture Notes in Computer Science</i> , 2020 , 303-316	0.9	
78	On Stochastic Fitness Landscapes: Local Optimality and Fitness Landscape Analysis for Stochastic Search Operators. <i>Lecture Notes in Computer Science</i> , 2020 , 97-110	0.9	
77	Surrogate assisted evolutionary algorithm for medium scale multi-objective optimisation problems 2020 ,		2
76	Dynamic Compartmental Models for Large Multi-objective Landscapes and Performance Estimation. <i>Lecture Notes in Computer Science</i> , 2020 , 99-113	0.9	
75	On the Combined Impact of Population Size and Sub-problem Selection in MOEA/D. <i>Lecture Notes in Computer Science</i> , 2020 , 131-147	0.9	3
74	Dominance, Indicator and Decomposition Based Search for Multi-objective QAP: Landscape Analysis and Automated Algorithm Selection. <i>Lecture Notes in Computer Science</i> , 2020 , 33-47	0.9	1
73	An Ensemble Indicator-Based Density Estimator for Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2020 , 201-214	0.9	2
72	Landscape-Aware Performance Prediction for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 1063-1077	15.6	17
71	A Parallel Tabu Search for the Large-scale Quadratic Assignment Problem 2019 ,		1
70	New features for continuous exploratory landscape analysis based on the SOO tree 2019 ,		15
69	Dynamic compartmental models for algorithm analysis and population size estimation 2019 ,		1
68	Surrogate-assisted multiobjective optimization based on decomposition 2019 ,		3

67	Estimating Relevance of Variables for Effective Recombination. <i>Lecture Notes in Computer Science</i> , 2019 , 411-423	0.9	
66	Approximating Pareto Set Topology by Cubic Interpolation on Bi-objective Problems. <i>Lecture Notes in Computer Science</i> , 2019 , 386-398	0.9	
65	Dominance, epsilon, and hypervolume local optimal sets in multi-objective optimization, and how to tell the difference 2018 ,		2
64	Parallel pareto local search revisited 2018 ,		1
63	Pareto dominance-based MOEAs on problems with difficult pareto set topologies 2018 ,		1
62	On Pareto Local Optimal Solutions Networks. <i>Lecture Notes in Computer Science</i> , 2018 , 232-244	0.9	6
61	A Surrogate Model Based on Walsh Decomposition for Pseudo-Boolean Functions. <i>Lecture Notes in Computer Science</i> , 2018 , 181-193	0.9	7
60	A Fitness Landscape Analysis of Pareto Local Search on Bi-objective Permutation Flowshop Scheduling Problems. <i>Lecture Notes in Computer Science</i> , 2017 , 422-437	0.9	1
59	Closed state model for understanding the dynamics of MOEAs 2017 ,		2
58	Problem Features versus Algorithm Performance on Rugged Multiobjective Combinatorial Fitness Landscapes. <i>Evolutionary Computation</i> , 2017 , 25, 555-585	4.3	16
57	Learning Variable Importance to Guide Recombination on Many-Objective Optimization 2017 ,		2
56	An Approach for the Local Exploration of Discrete Many Objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2017 , 135-150	0.9	4
55	Towards Landscape-Aware Automatic Algorithm Configuration: Preliminary Experiments on Neutral and Rugged Landscapes. <i>Lecture Notes in Computer Science</i> , 2017 , 215-232	0.9	9
54	Using Parallel Strategies to Speed up Pareto Local Search. <i>Lecture Notes in Computer Science</i> , 2017 , 62-74	0.9	3
53	Approaches for Many-Objective Optimization: Analysis and Comparison on MNK-Landscapes. <i>Lecture Notes in Computer Science</i> , 2016 , 14-28	0.9	3
52	Learning variable importance to guide recombination 2016 ,		4
51	Multi-objective Local Search Based on Decomposition. <i>Lecture Notes in Computer Science</i> , 2016 , 431-441	0.9	4
50	A Correlation Analysis of Set Quality Indicator Values in Multiobjective Optimization 2016 ,		15

49	Experiments on Greedy and Local Search Heuristics for d dimensional Hypervolume Subset Selection 2016 ,		11
48	2015 ,		2
47	Injecting CMA-ES into MOEA/D 2015 ,		10
46	Global vs Local Search on Multi-objective NK-Landscapes 2015 ,		12
45	Experiments on Local Search for Bi-objective Unconstrained Binary Quadratic Programming. <i>Lecture Notes in Computer Science</i> , 2015 , 171-186	0.9	9
44	A Feature-Based Performance Analysis in Evolutionary Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , 95-109	0.9	7
43	Geometric Differential Evolution in MOEA/D: A Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2015 , 364-376	0.9	4
42	A hybrid metaheuristic for multiobjective unconstrained binary quadratic programming. <i>Applied Soft Computing Journal</i> , 2014 , 16, 10-19	7.5	28
41	Distributed localized bi-objective search. <i>European Journal of Operational Research</i> , 2014 , 239, 731-743	5.6	2
40	On the Impact of Multiobjective Scalarizing Functions. <i>Lecture Notes in Computer Science</i> , 2014 , 548-558	0.9	10
39	Local Optimal Sets and Bounded Archiving on Multi-objective NK-Landscapes with Correlated Objectives. <i>Lecture Notes in Computer Science</i> , 2014 , 621-630	0.9	2
38	Shake Them All!. <i>Lecture Notes in Computer Science</i> , 2014 , 641-651	0.9	5
37	What Makes an Instance Difficult for Black-Box Off Evolutionary Multiobjective Optimizers?. <i>Lecture Notes in Computer Science</i> , 2014 , 3-15	0.9	3
36	An Analysis of Differential Evolution Parameters on Rotated Bi-objective Optimization Functions. <i>Lecture Notes in Computer Science</i> , 2014 , 143-154	0.9	1
35	An Analysis on Selection for High-Resolution Approximations in Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2014 , 487-497	0.9	6
34	Metaheuristics for Biobjective Flow Shop Scheduling 2013 , 225-252		1
33	ParadisEO-MO: from fitness landscape analysis to efficient local search algorithms. <i>Journal of Heuristics</i> , 2013 , 19, 881-915	1.9	30
32	On the structure of multiobjective combinatorial search space: MNK-landscapes with correlated objectives. <i>European Journal of Operational Research</i> , 2013 , 227, 331-342	5.6	50

31	On set-based local search for multiobjective combinatorial optimization 2013 ,		3
30	Improvements on bicriteria pairwise sequence alignment: algorithms and applications. <i>Bioinformatics</i> , 2013 , 29, 996-1003	7.2	7
29	A study on population size and selection lapse in many-objective optimization 2013 ,		3
28	On local search for bi-objective knapsack problems. <i>Evolutionary Computation</i> , 2013 , 21, 179-96	4.3	9
27	CoBRA: A Coevolutionary Metaheuristic for Bi-level Optimization. <i>Studies in Computational Intelligence</i> , 2013 , 95-114	0.8	3
26	Force-Based Cooperative Search Directions in Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2013 , 383-397	0.9	4
25	Effects of Population Size on Selection and Scalability in Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2013 , 450-454	0.9	
24	On dominance-based multiobjective local search: design, implementation and experimental analysis on scheduling and traveling salesman problems. <i>Journal of Heuristics</i> , 2012 , 18, 317-352	1.9	64
23	CoBRA: A cooperative coevolutionary algorithm for bi-level optimization 2012 ,		36
22	On optimizing a bi-objective flowshop scheduling problem in an uncertain environment. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 3747-3762	2.7	16
21	Solving a dial-a-ride problem with a hybrid evolutionary multi-objective approach: Application to demand responsive transport. <i>Applied Soft Computing Journal</i> , 2012 , 12, 1247-1258	7.5	40
20	Metaheuristics for multiobjective optimisation. <i>4or</i> , 2011 , 9, 219-222	1.4	1
19	A software framework based on a conceptual unified model for evolutionary multiobjective optimization: ParadisEO-MOEO. <i>European Journal of Operational Research</i> , 2011 , 209, 104-112	5.6	45
18	Set-based multiobjective fitness landscapes 2011 ,		10
17	The road to VEGAS 2011 ,		1
16	NILS: A Neutrality-Based Iterated Local Search and Its Application to Flowshop Scheduling. <i>Lecture Notes in Computer Science</i> , 2011 , 191-202	0.9	11
15	Pareto Local Optima of Multiobjective NK-Landscapes with Correlated Objectives. <i>Lecture Notes in Computer Science</i> , 2011 , 226-237	0.9	5
14	Connectedness and Local Search for Bicriteria Knapsack Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 48-59	0.9	6

13	On the Neutrality of Flowshop Scheduling Fitness Landscapes. <i>Lecture Notes in Computer Science</i> , 2011 , 238-252	0.9	19
12	Analyzing the Effect of Objective Correlation on the Efficient Set of MNK-Landscapes. <i>Lecture Notes in Computer Science</i> , 2011 , 116-130	0.9	11
11	On the Effect of Connectedness for Biobjective Multiple and Long Path Problems. <i>Lecture Notes in Computer Science</i> , 2011 , 31-45	0.9	
10	ParadisEO-MOEO: A Software Framework for Evolutionary Multi-Objective Optimization. <i>Studies in Computational Intelligence</i> , 2010 , 87-117	0.8	8
9	On optimizing a demand responsive transport with an evolutionary multi-objective approach 2010 ,		3
8	A parallel multiple reference point approach for multi-objective optimization. <i>European Journal of Operational Research</i> , 2010 , 205, 390-400	5.6	54
7	Metaheuristics and cooperative approaches for the Bi-objective Ring Star Problem. <i>Computers and Operations Research</i> , 2010 , 37, 1033-1044	4.6	17
6	A Study on Dominance-Based Local Search Approaches for Multiobjective Combinatorial Optimization. <i>Lecture Notes in Computer Science</i> , 2009 , 120-124	0.9	7
5	A unified model for evolutionary multi-objective optimization and its implementation in a general purpose software framework 2009 ,		7
4	Metaheuristics for the Bi-objective Ring Star Problem. <i>Lecture Notes in Computer Science</i> , 2008 , 206-217	0.9	5
3	On the Integration of a TSP Heuristic into an EA for the Bi-objective Ring Star Problem. <i>Lecture Notes in Computer Science</i> , 2008 , 117-130	0.9	2
2	ParadisEO-MOEO: A Framework for Evolutionary Multi-objective Optimization 2007 , 386-400		41
1	Combinatorial Optimization of Stochastic Multi-objective Problems: An Application to the Flow-Shop Scheduling Problem 2007 , 457-471		17