

# Heike Trautmann

## List of Publications by Year in descending order

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52  
papers

2,025  
citations

489802

18  
h-index

466096

32  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking Crisis in Social Media Analytics: A Solution for the Data-Sharing Problem. Social Science Computer Review, 2022, 40, 1496-1522.	2.6	9
2	On the potential of normalized TSP features for automated algorithm selection. , 2021, , .		2
3	Peeking beyond peaks: Challenges and research potentials of continuous multimodal multi-objective optimization. Computers and Operations Research, 2021, 136, 105489.	2.4	16
4	Towards Feature-Free Automated Algorithm Selection for Single-Objective Continuous Black-Box Optimization. , 2021, , .		3
5	A multi-objective perspective on performance assessment and automated selection of single-objective optimization algorithms. Applied Soft Computing Journal, 2020, 88, 105901.	4.1	7
6	Demystifying Social Bots: On the Intelligence of Automated Social Media Actors. Social Media and Society, 2020, 6, 205630512093926.	1.5	22
7	Inside the Tool Set of Automation: Free Social Bot Code Revisited. Lecture Notes in Computer Science, 2020, , 101-114.	1.0	2
8	Towards Automated Configuration of Stream Clustering Algorithms. Communications in Computer and Information Science, 2020, , 137-143.	0.4	5
9	A Two-Phase Framework for Detecting Manipulation Campaigns in Social Media. Lecture Notes in Computer Science, 2020, , 201-214.	1.0	10
10	Deep Learning as a Competitive Feature-Free Approach for Automated Algorithm Selection on the Traveling Salesperson Problem. Lecture Notes in Computer Science, 2020, , 48-64.	1.0	10
11	Per-Instance Configuration of the Modularized CMA-ES by Means of Classifier Chains and Exploratory Landscape Analysis. , 2020, , .		9
12	Evolving diverse TSP instances by means of novel and creative mutation operators. , 2019, , .		20
13	Multi-objective Performance Measurement: Alternatives to PAR10 and Expected Running Time. Lecture Notes in Computer Science, 2019, , 215-219.	1.0	3
14	Automated Algorithm Selection on Continuous Black-Box Problems by Combining Exploratory Landscape Analysis and Machine Learning. Evolutionary Computation, 2019, 27, 99-127.	2.3	102
15	Automated Algorithm Selection: Survey and Perspectives. Evolutionary Computation, 2019, 27, 3-45.	2.3	219
16	Comprehensive Feature-Based Landscape Analysis of Continuous and Constrained Optimization Problems Using the R-Package Flacco. Studies in Classification, Data Analysis, and Knowledge Organization, 2019, , 93-123.	0.1	52
17	Multiobjective evolutionary algorithms based on target region preferences. Swarm and Evolutionary Computation, 2018, 40, 196-215.	4.5	23
18	Leveraging TSP Solver Complementarity through Machine Learning. Evolutionary Computation, 2018, 26, 597-620.	2.3	53

#	ARTICLE	IF	CITATIONS
19	Local search effects in bi-objective orienteering. , 2018, , .		5
20	Parameterization of state-of-the-art performance indicators. , 2018, , .		11
21	Building and Using an Ontology of Preference-Based Multiobjective Evolutionary Algorithms. Lecture Notes in Computer Science, 2017, , 406-421.	1.0	11
22	An Empirical Comparison of Stream Clustering Algorithms. , 2017, , .		26
23	Social Bots: Human-Like by Means of Human Control?. Big Data, 2017, 5, 279-293.	2.1	100
24	The R-Package FLACCO for exploratory landscape analysis with applications to multi-objective optimization problems. , 2016, , .		40
25	Low-Budget Exploratory Landscape Analysis on Multiple Peaks Models. , 2016, , .		41
26	On the Closest Averaged Hausdorff Archive for a Circularly Convex Pareto Front. Lecture Notes in Computer Science, 2016, , 42-55.	1.0	1
27	Towards Analyzing Multimodality of Continuous Multiobjective Landscapes. Lecture Notes in Computer Science, 2016, , 962-972.	1.0	25
28	Understanding Characteristics of Evolved Instances for State-of-the-Art Inexact TSP Solvers with Maximum Performance Difference. Lecture Notes in Computer Science, 2016, , 3-12.	1.0	8
29	Evolving Instances for Maximizing Performance Differences of State-of-the-Art Inexact TSP Solvers. Lecture Notes in Computer Science, 2016, , 48-59.	1.0	7
30	Evaluation of a Multi-Objective EA on Benchmark Instances for Dynamic Routing of a Vehicle. , 2015, , .		12
31	Detecting Funnel Structures by Means of Exploratory Landscape Analysis. , 2015, , .		59
32	2 Indicator-Based Multiobjective Search. Evolutionary Computation, 2015, 23, 369-395.	2.3	70
33	Improving the State of the Art in Inexact TSP Solving Using Per-Instance Algorithm Selection. Lecture Notes in Computer Science, 2015, , 202-217.	1.0	36
34	Cell Mapping Techniques for Exploratory Landscape Analysis. Advances in Intelligent Systems and Computing, 2014, , 115-131.	0.5	21
35	A novel feature-based approach to characterize algorithm performance for the traveling salesperson problem. Annals of Mathematics and Artificial Intelligence, 2013, 69, 151-182.	0.9	68
36	A feature-based comparison of local search and the christofides algorithm for the travelling salesperson problem. , 2013, , .		23

#	ARTICLE	IF	CITATIONS
37	Indicator-based Selection in Evolutionary Multiobjective Optimization Algorithms Based On the Desirability Index. Journal of Multi-Criteria Decision Analysis, 2013, 20, 319-337.	1.0	12
38	Preference Articulation by Means of the R2 Indicator. Lecture Notes in Computer Science, 2013, , 81-95.	1.0	19
39	R2-EMOA: Focused Multiobjective Search Using R2-Indicator-Based Selection. Lecture Notes in Computer Science, 2013, , 70-74.	1.0	60
40	Algorithm selection based on exploratory landscape analysis and cost-sensitive learning. , 2012, , .		95
41	On the properties of the R2 indicator. , 2012, , .		130
42	Local Search and the Traveling Salesman Problem: A Feature-Based Characterization of Problem Hardness. Lecture Notes in Computer Science, 2012, , 115-129.	1.0	19
43	A Taxonomy of Online Stopping Criteria for Multi-Objective Evolutionary Algorithms. Lecture Notes in Computer Science, 2011, , 16-30.	1.0	21
44	Exploratory landscape analysis. , 2011, , .		226
45	Integration of Preferences in Hypervolume-Based Multiobjective Evolutionary Algorithms by Means of Desirability Functions. IEEE Transactions on Evolutionary Computation, 2010, 14, 688-701.	7.5	183
46	New Uncertainty Handling Strategies in Multi-objective Evolutionary Optimization. , 2010, , 260-269.		8
47	Online convergence detection for evolutionary multi-objective algorithms revisited. , 2010, , .		11
48	Preference-Based Multi-Objective Particle Swarm Optimization Using Desirabilities. , 2010, , 101-110.		4
49	Preference-based Pareto optimization in certain and noisy environments. Engineering Optimization, 2009, 41, 23-38.	1.5	40
50	Pareto-dominance in noisy environments. , 2009, , .		9
51	Introducing user preference using Desirability Functions in Multi-Objective Evolutionary Optimisation of noisy processes. , 2007, , .		6
52	On the distribution of the desirability index using Harrington's desirability function. Metrika, 2006, 63, 207-213.	0.5	51