JÃ¼rgen Branke

List of Publications by Year
in descending order

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68	3,738	201674	189892
papers	citations	27 h-index	50 g-index

69	69	69	2157
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust Optimization Over Time by Estimating Robustness of Promising Regions. IEEE Transactions on Evolutionary Computation, 2023, 27, 657-670.	10.0	3
2	Benchmarking Continuous Dynamic Optimization: Survey and Generalized Test Suite. IEEE Transactions on Cybernetics, 2022, 52, 3380-3393.	9.5	20
3	Robustness Estimation and Optimisation for Semantic Web Service Composition With Stochastic Service Failures. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 77-92.	4.9	3
4	Adaptive Control of Subpopulations in Evolutionary Dynamic Optimization. IEEE Transactions on Cybernetics, 2022, 52, 6476-6489.	9.5	3
5	Bayesian Optimization Allowing for Common Random Numbers. Operations Research, 2022, 70, 3457-3472.	1.9	2
6	Home healthcare routing and scheduling of multiple nurses in a dynamic environment. Flexible Services and Manufacturing Journal, 2021, 33, 253-280.	3.4	28
7	A Survey of Evolutionary Continuous Dynamic Optimization Over Two Decadesâ€"Part A. IEEE Transactions on Evolutionary Computation, 2021, 25, 609-629.	10.0	45
8	A Survey of Evolutionary Continuous Dynamic Optimization Over Two Decadesâ€"Part B. IEEE Transactions on Evolutionary Computation, 2021, 25, 630-650.	10.0	48
9	Reproducibility in Evolutionary Computation. ACM Transactions on Evolutionary Learning, 2021, 1, 1-21.	3.5	18
10	Development of a model to demonstrate the impact of National Institute of Health and Care Excellence costâ€effectiveness assessment on health utility for targeted medicines. Health Economics (United Kingdom), 2021, 31, 417.	1.7	1
11	Scaling Up Dynamic Optimization Problems: A Divide-and-Conquer Approach. IEEE Transactions on Evolutionary Computation, 2020, 24, 1-15.	10.0	48
12	Genetic Programming Hyper-Heuristics with Vehicle Collaboration for Uncertain Capacitated Arc Routing Problems. Evolutionary Computation, 2020, 28, 563-593.	3.0	33
13	ACM Transactions on Evolutionary Learning and Optimization (TELO). ACM SIGEVOlution, 2020, 12, 8-8.	0.5	0
14	Robust Optimization Over Time by Learning Problem Space Characteristics. IEEE Transactions on Evolutionary Computation, 2019, 23, 143-155.	10.0	27
15	New Sampling Strategies When Searching for Robust Solutions. IEEE Transactions on Evolutionary Computation, 2019, 23, 273-287.	10.0	11
16	Identifying efficient solutions via simulation: myopic multi-objective budget allocation for the bi-objective case. OR Spectrum, 2019, 41, 831-865.	3.4	5
17	Simulation optimisation. , 2019, , .		0
18	Dynamic scheduling of multi-product continuous biopharmaceutical facilities: A hyper-heuristic framework. Computers and Chemical Engineering, 2019, 125, 71-88.	3.8	13

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19	Bayesian Simulation Optimization with Common Random Numbers. , 2019, , .		4
20	Multiobjective Ranking and Selection with Correlation and Heteroscedastic Noise. , 2019, , .		3
21	Top-î² selection with pairwise comparisons. European Journal of Operational Research, 2019, 274, 615-626.	5.7	7
22	Dynamically accepting and scheduling patients for home healthcare. Health Care Management Science, 2019, 22, 140-155.	2.6	43
23	Continuous multi-task Bayesian Optimisation with correlation. European Journal of Operational Research, 2018, 270, 1074-1085.	5.7	23
24	Optimal Sampling for Simulated Annealing Under Noise. INFORMS Journal on Computing, 2018, 30, 200-215.	1.7	6
25	Optimizing agents with genetic programming: an evaluation of hyper-heuristics in dynamic real-time logistics. Genetic Programming and Evolvable Machines, 2018, 19, 93-120.	2.2	19
26	Algorithms for the multi-objective vehicle routing problem with hard time windows and stochastic travel time and service time. Applied Soft Computing Journal, 2018, 70, 66-79.	7.2	31
27	Simulation optimisation. , 2018, , .		2
28	Changing or keeping solutions in dynamic optimization problems with switching costs. , 2018, , .		17
29	An Improved Genetic Programming Hyper-Heuristic for the Uncertain Capacitated Arc Routing Problem. Lecture Notes in Computer Science, 2018, , 432-444.	1.3	17
30	A Multi-objective Time-Linkage Approach for Dynamic Optimization Problems with Previous-Solution Displacement Restriction. Lecture Notes in Computer Science, 2018, , 864-878.	1.3	7
31	Efficient Use of Partially Converged Simulations in Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 52-64.	10.0	23
32	A New Multi-swarm Particle Swarm Optimization for Robust Optimization Over Time. Lecture Notes in Computer Science, 2017, , 99-109.	1.3	15
33	A new lot sizing and scheduling heuristic for multi-site biopharmaceutical production. Journal of Heuristics, 2017, 23, 231-256.	1.4	6
34	Efficient expected improvement estimation for continuous multiple ranking and selection. , 2017, , .		10
35	Evolving control rules for a dual-constrained job scheduling scenario. , 2016, , .		6
36	Multio-bjective ranking and selection based on hypervolume. , 2016, , .		7

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37	Multiple surrogate assisted multiobjective optimization using improved pre-selection. , 2016, , .		19
38	Dynamic adjustment of dispatching rule parameters in flow shops with sequence-dependent set-up times. International Journal of Production Research, 2016, 54, 6812-6824.	7.5	50
39	Using Choquet integral as preference model in interactive evolutionary multiobjective optimization. European Journal of Operational Research, 2016, 250, 884-901.	5.7	84
40	Automated Design of Production Scheduling Heuristics: A Review. IEEE Transactions on Evolutionary Computation, 2016, 20, 110-124.	10.0	316
41	A new myopic sequential sampling algorithm for multi-objective problems. , 2015, , .		12
42	Adaptive Parent Population Sizing in Evolution Strategies. Evolutionary Computation, 2015, 23, 397-420.	3.0	7
43	Hyper-heuristic Evolution of Dispatching Rules: A Comparison of Rule Representations. Evolutionary Computation, 2015, 23, 249-277.	3.0	101
44	Tracking global optima in dynamic environments with efficient global optimization. European Journal of Operational Research, 2015, 242, 744-755.	5.7	20
45	Learning Value Functions in Interactive Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 88-102.	10.0	82
46	On Using Surrogates with Genetic Programming. Evolutionary Computation, 2015, 23, 343-367.	3.0	119
47	Evolutionary Algorithms. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 178-195.	6.8	46
48	Evolutionary generation of dispatching rule sets for complex dynamic scheduling problems. International Journal of Production Economics, 2013, 145, 67-77.	8.9	116
49	Experimental Analysis of Bound Handling Techniques in Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 259-271.	10.0	127
50	Evolutionary synthesis of multi-agent systems for dynamic dial-a-ride problems. , 2012, , .		16
51	Formulations and algorithms for the multi-path selection problem in network routing. , 2012, , .		1
52	Optimal computing budget allocation for small computing budgets. , 2012, , .		6
53	Setup-oriented dispatching rules â€“ a survey. International Journal of Production Research, 2012, 50, 5823-5842.	7.5	32
54	Evolutionary dynamic optimization: A survey of the state of the art. Swarm and Evolutionary Computation, 2012, 6, 1-24.	8.1	584

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55	Evolutionary search for difficult problem instances to support the design of job shop dispatching rules. European Journal of Operational Research, 2011, 212, 22-32.	5.7	27
56	Generating dispatching rules for semiconductor manufacturing to minimize weighted tardiness. , 2010, , .		37
57	Sequential Sampling to Myopically Maximize the Expected Value of Information. INFORMS Journal on Computing, 2010, 22, 71-80.	1.7	114
58	Possibilities and limitations of decentralised traffic control systems. , 2010, , .		8
59	Reliability-Based Optimization Using Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2009, 13, 1054-1074.	10.0	181
60	Simulated annealing in the presence of noise. Journal of Heuristics, 2008, 14, 627-654.	1.4	35
61	Particle Swarms for Dynamic Optimization Problems. Natural Computing Series, 2008, , 193-217.	2.2	90
62	Selecting a Selection Procedure. Management Science, 2007, 53, 1916-1932.	4.1	187
63	Particle swarm with speciation and adaptation in a dynamic environment. , 2006, , .		98
64	Integrating Techniques from Statistical Ranking into Evolutionary Algorithms. Lecture Notes in Computer Science, 2006, , 752-763.	1.3	31
65	Anticipation and flexibility in dynamic scheduling. International Journal of Production Research, 2005, 43, 3103-3129.	7.5	78
66	Multi-swarm Optimization in Dynamic Environments. Lecture Notes in Computer Science, 2004, , 489-500.	1.3	250
67	Designing Evolutionary Algorithms for Dynamic Optimization Problems. Natural Computing Series, 2003, , 239-262.	2.2	109
68	A Multi-population Approach to Dynamic Optimization Problems. , 2000, , 299-307.		201