Meta-Modeling in Multiobjective Optimization

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#	Paper	IF	Citations
51	A novel sequential design strategy for global surrogate modeling. **2009**,		53
50	Multiobjective global surrogate modeling, dealing with the 5-percent problem. *Engineering With Computers*, **2010**, 26, 81-98	4.5	33
49	Surrogate-based infill optimization applied to electromagnetic problems. *International Journal of RF and Microwave Computer-Aided Engineering*, **2010**, 20, 492-501	1.5	85
48	A pareto-compliant surrogate approach for multiobjective optimization. **2010**,		1
47	A mono surrogate for multiobjective optimization. **2010**,		48
46	A Review of Techniques for Handling Expensive Functions in Evolutionary Multi-Objective Optimization. *Adaptation, Learning, and Optimization*, **2010**, 29-59	0.7	45
45	Automatic surrogate model type selection during the optimization of expensive black-box problems. **2011**,		10
44	Kriging/RBF-hybrid response surface method for highly nonlinear functions. **2011**,		3
43	Efficient Optimization of Reliable Two-Node Connected Networks: A Biobjective Approach. *INFORMS Journal on Computing*, **2011**, 23, 430-445	2.4	5
42	Resampling methods for meta-model validation with recommendations for evolutionary computation. *Evolutionary Computation*, **2012**, 20, 249-75	4.3	90
41	Towards Efficient Multiobjective Optimization: Multiobjective statistical criterions. **2012**,		5
40	A Study on Optimizing Execution Time and Code Size in Iterative Compilation. **2012**,		4
39	Multi-objective optimization with surrogate trees. **2013**,		6
38	Tuning multi-objective optimization algorithms for cyclone dust separators. **2014**,		1
37	On the performance of classification algorithms for learning Pareto-dominance relations. **2014**,		22
36	Fast calculation of multiobjective probability of improvement and expected improvement criteria for Pareto optimization. *Journal of Global Optimization*, **2014**, 60, 575-594	1.5	107
35	Application of data mining in multiobjective optimization problems. *International Journal for Simulation and Multidisciplinary Design Optimization*, **2014**, 5, A15	0.6	7

34	Multi-objective Evolutionary Algorithms in Real-World Applications: Some Recent Results and Current Challenges. *Computational Methods in Applied Sciences (Springer)*, **2015**, 3-18	0.4	19
33	Efficient multi-criteria optimization on noisy machine learning problems. *Applied Soft Computing Journal*, **2015**, 29, 357-370	7.5	22
32	. *IEEE Transactions on Evolutionary Computation*, **2015**, 19, 746-758	15.6	84
31	A survey on handling computationally expensive multiobjective optimization problems using surrogates: non-nature inspired methods. *Structural and Multidisciplinary Optimization*, **2015**, 52, 1-25	3.6	68
30	A Surrogate Based Optimization Approach for the Development of Uncertainty-Aware Reservoir Operational Rules: the Case of Nestos Hydrosystem. *Water Resources Management*, **2015**, 29, 4719-4734	3.7	12
29	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 939-952	15.6	119
28	Building accurate radio environment maps from multi-fidelity spectrum sensing data. *Wireless Networks*, **2016**, 22, 2551-2562	2.5	5
27	ParEGO extensions for multi-objective optimization of expensive evaluation functions. *Journal of Global Optimization*, **2017**, 67, 79-96	1.5	11
26	Necessary and Sufficient Conditions for Surrogate Functions of Pareto Frontiers and Their Synthesis Using Gaussian Processes. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 1-13	15.6	6
25	Cognition-Enhanced, Self-optimizing Assembly Systems. **2017**, 877-990		1
24	Surrogate-assisted multicriteria optimization: Complexities, prospective solutions, and business case. *Journal of Multi-Criteria Decision Analysis*, **2017**, 24, 5-24	1.9	42
23	Investigating uncertainty propagation in surrogate-assisted evolutionary algorithms. **2017**,		6
22	Introduction to Architectural Design Optimization. *Springer Optimization and Its Applications*, **2017**, 259-278	0.4	6
21	Clustering-based evolution control for surrogate-assisted particle swarm optimization. **2017**,		2
20	On the performance of meta-models in building design optimization. *Applied Energy*, **2018**, 225, 814-826	10.7	33
19	Optimization-based planning of local energy systems -bridging the research-practice gap. *IOP Conference Series: Earth and Environmental Science*, **2019**, 323, 012077	0.3	1
18	A survey on handling computationally expensive multiobjective optimization problems with evolutionary algorithms. *Soft Computing*, **2019**, 23, 3137-3166	3.5	102
17	Open Issues in Surrogate-Assisted Optimization. *Studies in Computational Intelligence*, **2020**, 225-244	0.8	5

16	Multi-Objective Optimization of Production Objectives Based on Surrogate Model. *Applied Sciences (Switzerland)*, **2020**, 10, 7870	2.6	2
15	Expensive Multi-Objective Evolutionary Optimization Assisted by Dominance Prediction. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	4
14	A Collaborative Beetle Antennae Search Algorithm Using Memory Based Adaptive Learning. *Applied Artificial Intelligence*, **2021**, 35, 440-475	2.3	2
13	Locating Pareto optimal designs of antenna through parallel multiobjective evolutionary algorithm. *International Journal of RF and Microwave Computer-Aided Engineering*, **2021**, 31, e22871	1.5	
12	Model-Based Multi-objective Optimization: Taxonomy, Multi-Point Proposal, Toolbox and Benchmark. *Lecture Notes in Computer Science*, **2015**, 64-78	0.9	33
11	On Using Decision Maker Preferences with ParEGO. *Lecture Notes in Computer Science*, **2017**, 282-297	0.9	7
10	Surrogate-Assisted Partial Order-Based Evolutionary Optimisation. *Lecture Notes in Computer Science*, **2017**, 639-653	0.9	2
9	Noisy Multiobjective Optimization on a Budget of 250 Evaluations. *Lecture Notes in Computer Science*, **2009**, 36-50	0.9	28
8	Pareto-Based Multi-output Metamodeling with Active Learning. *Communications in Computer and Information Science*, **2009**, 389-400	0.3	3
7	Dominance-Based Pareto-Surrogate for Multi-Objective Optimization. *Lecture Notes in Computer Science*, **2010**, 230-239	0.9	21
6	Metamodels for Fast Multi-objective Optimization: Trading Off Global Exploration and Local Exploitation. *Lecture Notes in Computer Science*, **2010**, 523-532	0.9	7
5	A Case Study on Multi-Criteria Optimization of an Event Detection Software under Limited Budgets. *Lecture Notes in Computer Science*, **2013**, 756-770	0.9	11
4	Exploiting genomic knowledge in optimising molecular breeding programmes: algorithms from evolutionary computing. *PLoS ONE*, **2012**, 7, e48862	3.7	12
3	New Surrogate Approaches Applied to Meta-Heuristic Algorithms. *Lecture Notes in Computer Science*, **2020**, 400-411	0.9	
2	Choose Appropriate Subproblems for Collaborative Modeling in Expensive Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	2
1	An adaptive model switch-based surrogate-assisted evolutionary algorithm for noisy expensive multi-objective optimization. *Complex & Intelligent Systems*, 1	7.1	0