Juliane Mueller

List of Publications by Year
in descending order

21 papers	696 citations	840776 11 h-index	888059 17 g-index
22 all docs	22 docs citations	22 times ranked	626 citing authors

#	Article	IF	Citations
1	SO-MI: A surrogate model algorithm for computationally expensive nonlinear mixed-integer black-box global optimization problems. Computers and Operations Research, 2013, 40, 1383-1400.	4.0	147
2	Influence of ensemble surrogate models and sampling strategy on the solution quality of algorithms forÂcomputationally expensive black-box global optimization problems. Journal of Global Optimization, 2014, 60, 123-144.	1.8	127
3	Mixture surrogate models based on Dempster-Shafer theory for global optimization problems. Journal of Global Optimization, 2011, 51, 79-104.	1.8	82
4	MISO: mixed-integer surrogate optimization framework. Optimization and Engineering, 2016, 17, 177-203.	2.4	58
5	SOCEMO: Surrogate Optimization of Computationally Expensive Multiobjective Problems. INFORMS Journal on Computing, 2017, 29, 581-596.	1.7	54
6	SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications. Journal of Global Optimization, 2014, 59, 865-889.	1.8	44
7	Surrogate optimization of deep neural networks for groundwater predictions. Journal of Global Optimization, 2021, 81, 203-231.	1.8	40
8	GOSAC: global optimization with surrogate approximation of constraints. Journal of Global Optimization, 2017, 69, 117-136.	1.8	28
9	Can machine learning accelerate process understanding and decisionâ€relevant predictions of river water quality?. Hydrological Processes, 2022, 36, .	2.6	26
10	Impact of Input Feature Selection on Groundwater Level Prediction From a Multi-Layer Perceptron Neural Network. Frontiers in Water, 2020, 2, .	2.3	23
11	Surrogate Optimization of Computationally Expensive Black-Box Problems with Hidden Constraints. INFORMS Journal on Computing, 2019, 31, 689-702.	1.7	22
12	An Efficient Algorithm for Automatic Structure Optimization in X-ray Standing-Wave Experiments. Journal of Electron Spectroscopy and Related Phenomena, 2019, 230, 10-20.	1.7	12
13	Characterization of free-standing InAs quantum membranes by standing wave hard x-ray photoemission spectroscopy. APL Materials, 2018, 6, .	5.1	11
14	SO-MODS: Optimization for high dimensional computationally expensive multi-modal functions with surrogate search. , 2014, , .		6
15	Optimization of the Eddyâ€Diffusivity/Massâ€Flux Shallow Cumulus and Boundaryâ€Layer Parameterization Using Surrogate Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 402-416.	3.8	5
16	BROOD: Bilevel and Robust Optimization and Outlier Detection for Efficient Tuning of High-Energy Physics Event Generators. SciPost Physics Core, 2022, 5, .	2.8	3
17	Programmable In Situ System for Iterative Workflows. Lecture Notes in Computer Science, 2018, , 122-131.	1.3	2
18	HYPPO: A Surrogate-Based Multi-Level Parallelism Tool for Hyperparameter Optimization. , 2021, , .		2

#	Article	IF	Citations
19	An algorithmic framework for the optimization of computationally expensive bi-fidelity black-box problems. Infor, 2020, 58, 264-289.	0.6	1
20	Assessing data change in scientific datasets. Concurrency Computation Practice and Experience, 2021, 33, e6245.	2.2	0
21	Optimization of fuel formulation using adaptive learning and artificial intelligence. , 2022, , 27-45.		0