

Leshi Shu

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

615
citations

623734

14
h-index

610901

24
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28
all docs

28
docs citations

28
times ranked

371
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of laser welding process parameters of stainless steel 316L using FEM, Kriging and NSGA-II. <i>Advances in Engineering Software</i> , 2016, 99, 147-160.	3.8	84
2	An adaptive global variable fidelity metamodeling strategy using a support vector regression based scaling function. <i>Simulation Modelling Practice and Theory</i> , 2015, 59, 18-35.	3.8	70
3	An active learning metamodeling approach by sequentially exploiting difference information from variable-fidelity models. <i>Advanced Engineering Informatics</i> , 2016, 30, 283-297.	8.0	62
4	A robust optimization approach based on multi-fidelity metamodel. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 775-797.	3.5	51
5	An active learning variable-fidelity metamodeling approach based on ensemble of metamodels and objective-oriented sequential sampling. <i>Journal of Engineering Design</i> , 2016, 27, 205-231.	2.3	50
6	Variable-fidelity probability of improvement method for efficient global optimization of expensive black-box problems. <i>Structural and Multidisciplinary Optimization</i> , 2020, 62, 3021-3052.	3.5	32
7	A New Multi-Objective Bayesian Optimization Formulation With the Acquisition Function for Convergence and Diversity. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2020, 142, .	2.9	29
8	Variable-Fidelity Lower Confidence Bounding Approach for Engineering Optimization Problems with Expensive Simulations. <i>AIAA Journal</i> , 2019, 57, 5416-5430.	2.6	26
9	Advanced Multi-Objective Robust Optimization Under Interval Uncertainty Using Kriging Model and Support Vector Machine. <i>Journal of Computing and Information Science in Engineering</i> , 2018, 18, .	2.7	20
10	Novel Approach for Selecting Low-Fidelity Scale Factor in Multifidelity Metamodeling. <i>AIAA Journal</i> , 2019, 57, 5320-5330.	2.6	20
11	An on-line variable fidelity metamodel assisted Multi-objective Genetic Algorithm for engineering design optimization. <i>Applied Soft Computing Journal</i> , 2018, 66, 438-448.	7.2	18
12	An adaptive sampling strategy for Kriging metamodel based on Delaunay triangulation and TOPSIS. <i>Applied Intelligence</i> , 2018, 48, 1644-1656.	5.3	18
13	Metamodel-based design optimization employing a novel sequential sampling strategy. <i>Engineering Computations</i> , 2017, 34, 2547-2564.	1.4	17
14	An online variable-fidelity optimization approach for multi-objective design optimization. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1059-1077.	3.5	16
15	A lower confidence bounding approach based on the coefficient of variation for expensive global design optimization. <i>Engineering Computations</i> , 2019, 36, 830-849.	1.4	14
16	A multi-fidelity Bayesian optimization approach based on the expected further improvement. <i>Structural and Multidisciplinary Optimization</i> , 2021, 63, 1709-1719.	3.5	11
17	Real-time laser keyhole welding penetration state monitoring based on adaptive fusion images using convolutional neural networks. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 1259-1273.	7.3	11
18	Accurate Prediction of the Weld Bead Characteristic in Laser Keyhole Welding Based on the Stochastic Kriging Model. <i>Metals</i> , 2018, 8, 486.	2.3	10

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19	Coarse-Grained Force Field Calibration Based on Multiobjective Bayesian Optimization to Simulate Water Diffusion in Poly- μ -caprolactone. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5042-5052.	2.5	10
20	A multi-fidelity surrogate modeling method based on variance-weighted sum for the fusion of multiple non-hierarchical low-fidelity data. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 3797-3818.	3.5	10
21	A multi-objective robust optimization approach for engineering design under interval uncertainty. <i>Engineering Computations</i> , 2018, 35, 580-603.	1.4	9
22	Comparative studies of error metrics in variable fidelity model uncertainty quantification. <i>Journal of Engineering Design</i> , 2018, 29, 512-538.	2.3	9
23	A parallel constrained lower confidence bounding approach for computationally expensive constrained optimization problems. <i>Applied Soft Computing Journal</i> , 2021, 106, 107276.	7.2	8
24	An improved sequential multi-objective robust optimisation approach considering interval uncertainty reduction under mixed uncertainties. <i>Journal of Engineering Design</i> , 2021, 32, 61-89.	2.3	6
25	An active learning variable-fidelity metamodeling approach for engineering design. , 2015, , .		2
26	A sequential multi-objective robust optimization approach under interval uncertainty based on support vector machines. , 2017, , .		2
27	A variable-fidelity modeling method based on self-organizing maps spatial reduction. , 2016, , .		0
28	Reply by the Authors to S. Yang and K. Yee. <i>AIAA Journal</i> , 2022, 60, 2716-2717.	2.6	0