Chen Jiang

List of Publications by Year
in descending order

35 papers	1,036 citations	394421 19 h-index	477307 29 g-index
36 all docs	36 docs citations	36 times ranked	521 citing authors

#	Article	IF	Citations
1	A general failure-pursuing sampling framework for surrogate-based reliability analysis. Reliability Engineering and System Safety, 2019, 183, 47-59.	8.9	125
2	Real-time estimation error-guided active learning Kriging method for time-dependent reliability analysis. Applied Mathematical Modelling, 2020, 77, 82-98.	4.2	96
3	A sequential calibration and validation framework for model uncertainty quantification and reduction. Computer Methods in Applied Mechanics and Engineering, 2020, 368, 113172.	6.6	72
4	An adaptive hybrid single-loop method for reliability-based design optimization using iterative control strategy. Structural and Multidisciplinary Optimization, 2017, 56, 1271-1286.	3.5	65
5	An active failure-pursuing Kriging modeling method for time-dependent reliability analysis. Mechanical Systems and Signal Processing, 2019, 129, 112-129.	8.0	58
6	An efficient surrogate-assisted particle swarm optimization algorithm for high-dimensional expensive problems. Knowledge-Based Systems, 2019, 184, 104901.	7.1	52
7	A stochastic process discretization method combing active learning Kriging model for efficient time-variant reliability analysis. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113990.	6.6	49
8	Surrogate-assisted classification-collaboration differential evolution for expensive constrained optimization problems. Information Sciences, 2020, 508, 50-63.	6.9	47
9	Iterative reliable design space approach for efficient reliability-based design optimization. Engineering With Computers, 2020, 36, 151-169.	6.1	43
10	EEK-SYS: System reliability analysis through estimation error-guided adaptive Kriging approximation of multiple limit state surfaces. Reliability Engineering and System Safety, 2020, 198, 106906.	8.9	41
11	A screening-based gradient-enhanced Kriging modeling method for high-dimensional problems. Applied Mathematical Modelling, 2019, 69, 15-31.	4.2	37
12	A single-loop Kriging coupled with subset simulation for time-dependent reliability analysis. Reliability Engineering and System Safety, 2021, 216, 107931.	8.9	37
13	Uncertainty quantification and reduction in metal additive manufacturing. Npj Computational Materials, 2020, 6, .	8.7	33
14	Two-layer adaptive surrogate-assisted evolutionary algorithm for high-dimensional computationally expensive problems. Journal of Global Optimization, 2019, 74, 327-359.	1.8	30
15	Global and local Kriging limit state approximation for time-dependent reliability-based design optimization through wrong-classification probability. Reliability Engineering and System Safety, 2021, 208, 107431.	8.9	29
16	Ensemble of surrogates with hybrid method using global and local measures for engineering design. Structural and Multidisciplinary Optimization, 2018, 57, 1711-1729.	3.5	27
17	Optimization of expensive black-box problems via Gradient-enhanced Kriging. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112861.	6.6	26
18	R2-RRT*: Reliability-Based Robust Mission Planning of Off-Road Autonomous Ground Vehicle Under Uncertain Terrain Environment. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1030-1046.	5.2	23

#	ARTICLE	IF	CITATIONS
19	A two-stage support vector regression assisted sequential sampling approach for global metamodeling. Structural and Multidisciplinary Optimization, 2018, 58, 1657-1672.	3.5	20
20	Time-dependent reliability analysis through projection outline-based adaptive Kriging. Structural and Multidisciplinary Optimization, 2020, 61, 1453-1472.	3.5	18
21	A surrogate-assisted particle swarm optimization algorithm based on efficient global optimization for expensive black-box problems. Engineering Optimization, 2019, 51, 549-566.	2.6	17
22	An efficient semi-analytical extreme value method for time-variant reliability analysis. Structural and Multidisciplinary Optimization, 2021, 64, 1469-1480.	3.5	16
23	Model correction and updating of a stochastic degradation model for failure prognostics of miter gates. Reliability Engineering and System Safety, 2022, 218, 108203.	8.9	14
24	Surrogate Modeling of Nonlinear Dynamic Systems: A Comparative Study. Journal of Computing and Information Science in Engineering, 2023, 23, .	2.7	13
25	A probability feasible region enhanced important boundary sampling method for reliability-based design optimization. Structural and Multidisciplinary Optimization, 2021, 63, 341-355.	3.5	11
26	Simulation-Based Mission Mobility Reliability Analysis of Off-Road Ground Vehicles. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	11
27	Support Vector enhanced Kriging for metamodeling with noisy data. Structural and Multidisciplinary Optimization, 2018, 57, 1611-1623.	3.5	7
28	Bayesian calibration of multi-level model with unobservable distributed response and application to miter gates. Mechanical Systems and Signal Processing, 2022, 170, 108852.	8.0	6
29	A Novel Surrogate-assisted Differential Evolution for Expensive Optimization Problems with both Equality and Inequality Constraints. , 2019, , .		5
30	Efficient Reliability-Based Mission Planning of Off-Road Autonomous Ground Vehicles Using an Outcrossing Approach. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	3
31	Ensemble of surrogate models using sign based cross validation error. , 2017, , .		2
32	Simulation-Based Multi-Vehicle Path Planning Under Uncertainty Using Physarum-Based Approach. , 2022, , .		1
33	DATP-based sequential optimization and reliability assessment for RBDO. , 2016, , .		0
34	Reliability-Based Mission Planning of Off-road Ground Vehicle under Uncertain Environment. , 2021, , .		0
35	Model Uncertainty Quantification and Updating of a Boundary Condition Model of a Miter Gate Using Strain Measurements. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 5-8.	0.5	0