

Zhenzhou Lu

List of Publications by Year in descending order

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268

papers

6,438

citations

76326

40

h-index

106344

65

g-index

268

all docs

268

docs citations

268

times ranked

2129

citing authors

#	ARTICLE	IF	CITATIONS
1	Time-dependent reliability analysis method based on ARBIS and Kriging surrogate model. Engineering With Computers, 2023, 39, 2035-2048.	6.1	5
2	A novel single-loop simulation method and its combination with adaptive kriging for moment-independent global sensitivity analysis. Engineering Optimization, 2022, 54, 487-503.	2.6	1
3	Compound kriging-based importance sampling for reliability analysis of systems with multiple failure modes. Engineering Optimization, 2022, 54, 805-829.	2.6	6
4	An efficient method by nesting adaptive Kriging into Importance Sampling for failure-probability-based global sensitivity analysis. Engineering With Computers, 2022, 38, 3595-3610.	6.1	2
5	Estimation of small failure probability using generalized subset simulation. Mechanical Systems and Signal Processing, 2022, 163, 108114.	8.0	21
6	Efficient adaptive Kriging for system reliability analysis with multiple failure modes under random and interval hybrid uncertainty. Chinese Journal of Aeronautics, 2022, 35, 333-346.	5.3	7
7	An efficient method for estimating time-dependent failure possibility by combining adaptive Kriging with adaptive truncated fuzzy simulation. International Journal for Numerical Methods in Engineering, 2022, 123, 226-244.	2.8	1
8	Adaboost-based ensemble of polynomial chaos expansion with adaptive sampling. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114238.	6.6	10
9	An improved AK-MCS for reliability analysis by an efficient and simple reduction strategy of candidate sample pool. Structures, 2022, 35, 373-387.	3.6	13
10	Reliability analysis model of time-dependent multi-mode system under fuzzy uncertainty: Applied to undercarriage structures. Aerospace Science and Technology, 2022, 120, 107278.	4.8	6
11	Safety lifetime analysis method for multi-mode time-dependent structural system. Chinese Journal of Aeronautics, 2022, 35, 294-308.	5.3	2
12	A new preventive maintenance strategy optimization model considering lifecycle safety. Reliability Engineering and System Safety, 2022, 221, 108325.	8.9	13
13	Enhanced Adaptive Kriging Combined Adaptive Radial-Based Importance Sampling Method for Reliability Analysis. AIAA Journal, 2022, 60, 3528-3538.	2.6	2
14	Extended fuzzy first-order and second-moment method based on equivalent regularization for estimating failure credibility. Aerospace Science and Technology, 2022, 124, 107559.	4.8	6
15	Advanced solution framework for time-dependent reliability-based design optimization under fuzzy and interval uncertainties. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	1
16	A coupled adaptive radial-based importance sampling and single-loop Kriging surrogate model for time-dependent reliability analysis. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	6
17	An innovative reliability-based design optimization method by combination of dual-stage adaptive kriging and genetic algorithm. Multidiscipline Modeling in Materials and Structures, 2022, 18, 562-581.	1.3	5
18	Importance sampling-based algorithms for efficiently estimating failure chance index under two-fold random uncertainty. Structural and Multidisciplinary Optimization, 2022, 65, .	3.5	0

#	ARTICLE	IF	CITATIONS
19	Fuzzy importance sampling method for estimating failure possibility. Fuzzy Sets and Systems, 2021, 424, 170-184.	2.7	5
20	An efficient method for estimating fuzzy failure probability-based global fuzzy reliability sensitivity. Engineering Optimization, 2021, 53, 576-593.	2.6	1
21	An efficient dimensionality-independent algorithm for failure probability-based global sensitivity analysis by dual-stage adaptive kriging model. Engineering Optimization, 2021, 53, 1613-1631.	2.6	3
22	A novel hypercube-based fuzzy simulation and its combination with adaptive Kriging for estimating failure credibility. Aerospace Science and Technology, 2021, 108, 106406.	4.8	6
23	Adaptive Bayesian support vector regression model for structural reliability analysis. Reliability Engineering and System Safety, 2021, 206, 107286.	8.9	60
24	An efficient estimation of failure probability in the presence of random and interval hybrid uncertainty. Structural and Multidisciplinary Optimization, 2021, 63, 2613-2635.	3.5	2
25	Efficient sample reduction strategy based on adaptive Kriging for estimating failure credibility. Structural and Multidisciplinary Optimization, 2021, 63, 2125-2140.	3.5	4
26	Support vector machine-based importance sampling for rare event estimation. Structural and Multidisciplinary Optimization, 2021, 63, 1609-1631.	3.5	15
27	A novel adaptive support vector machine method for reliability analysis. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 896-908.	0.7	1
28	Time-dependent sequential optimization and possibility assessment method for time-dependent failure possibility-based design optimization. Aerospace Science and Technology, 2021, 110, 106492.	4.8	5
29	Local sensitivity analysis of failure possibility and its universal solution by fuzzy simulation. Structural and Multidisciplinary Optimization, 2021, 64, 219-238.	3.5	8
30	Adaptive Kriging Model for Fuzzy Safety Degree Analysis to Time-Dependent Structure. AIAA Journal, 2021, 59, 1528-1538.	2.6	2
31	Importance analysis on failure credibility of the fuzzy structure. Journal of Intelligent and Fuzzy Systems, 2021, 40, 12339-12359.	1.4	1
32	Advanced surrogate-based time-dependent reliability analysis method by an effective strategy of reducing the candidate sample pool. Structural and Multidisciplinary Optimization, 2021, 64, 2199-2212.	3.5	5
33	Resampling method for reliability-based design optimization based on thermodynamic integration and parallel tempering. Mechanical Systems and Signal Processing, 2021, 156, 107630.	8.0	3
34	AK-DS: An adaptive Kriging-based directional sampling method for reliability analysis. Mechanical Systems and Signal Processing, 2021, 156, 107610.	8.0	52
35	Error-based stopping criterion for the combined adaptive Kriging and importance sampling method for reliability analysis. Probabilistic Engineering Mechanics, 2021, 65, 103131.	2.7	22
36	The single-loop Kriging model combined with Bayes's formula for time-dependent failure probability based global sensitivity. Structures, 2021, 32, 987-996.	3.6	4

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37	Bayesian Support Vector Regression for Reliability-Based Design Optimization. AIAA Journal, 2021, 59, 5141-5157.	2.6	10
38	Improved chance index and its solutions for quantifying the structural safety degree under twofold random uncertainty. Reliability Engineering and System Safety, 2021, 212, 107635.	8.9	4
39	A novel inverse strain range-based adaptive Kriging method for analyzing the combined fatigue life reliability. Structural and Multidisciplinary Optimization, 2021, 64, 3311-3330.	3.5	1
40	An efficient method for solving the system failure possibility of multi-mode structure by combining hierarchical fuzzy simulation with Kriging model. Structural and Multidisciplinary Optimization, 2021, 64, 4025-4044.	3.5	4
41	Advanced single-loop Kriging surrogate model method by combining the adaptive reduction of candidate sample pool for safety lifetime analysis. Applied Mathematical Modelling, 2021, 100, 580-595.	4.2	6
42	Reliability index function approximation based on adaptive double-loop Kriging for reliability-based design optimization. Reliability Engineering and System Safety, 2021, 216, 108020.	8.9	33
43	Time-dependent structural system reliability analysis model and its efficiency solution. Reliability Engineering and System Safety, 2021, 216, 108029.	8.9	11
44	Global reliability sensitivity analysis index and its efficient numerical simulation solution in presence of both random and interval hybrid uncertainty. Structural and Multidisciplinary Optimization, 2021, 63, 551-573.	3.5	6
45	Time-dependent performance measure approach for time-dependent failure possibility-based design optimization. Structural and Multidisciplinary Optimization, 2021, 63, 1029-1044.	3.5	3
46	A novel method for estimating the failure possibility by combining the adaptive Kriging model with the Markov chain simulation. Aerospace Science and Technology, 2021, 119, 107205.	4.8	2
47	Measuring regional effects of model inputs with random Forest. Communications in Statistics Part B: Simulation and Computation, 2020, 49, 2444-2461.	1.2	0
48	An efficient method combining active learning Kriging and Monte Carlo simulation for profust failure probability. Fuzzy Sets and Systems, 2020, 387, 89-107.	2.7	30
49	Two Efficient AK-Based Global Reliability Sensitivity Methods by Elaborative Combination of Bayesâ€™ Theorem and the Law of Total Expectation in the Successive Intervals Without Overlapping. IEEE Transactions on Reliability, 2020, 69, 260-276.	4.6	8
50	An efficient method for estimating failure probability of the structure with multiple implicit failure domains by combining Meta-IS with IS-AK. Reliability Engineering and System Safety, 2020, 193, 106644.	8.9	32
51	AK-ARBIS: An improved AK-MCS based on the adaptive radial-based importance sampling for small failure probability. Structural Safety, 2020, 82, 101891.	5.3	80
52	Adaptive Kriging coupled with importance sampling strategies for time-variant hybrid reliability analysis. Applied Mathematical Modelling, 2020, 77, 1820-1841.	4.2	23
53	Line sampling-based local and global reliability sensitivity analysis. Structural and Multidisciplinary Optimization, 2020, 61, 267-281.	3.5	20
54	Novel fuzzy possibilistic safety degree measure model. Structural and Multidisciplinary Optimization, 2020, 61, 437-456.	3.5	3

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55	Novel decoupling method for time-dependent reliability-based design optimization. Structural and Multidisciplinary Optimization, 2020, 61, 507-524.	3.5	18
56	Structural Reliability Analysis with Conditional Importance Sampling Method Based on the Law of Total Expectation and Variance in Subintervals. Journal of Engineering Mechanics - ASCE, 2020, 146, 04019111.	2.9	3
57	A novel estimation method for failure-probability-based-sensitivity by conditional probability theorem. Structural and Multidisciplinary Optimization, 2020, 61, 1589-1602.	3.5	6
58	Hierarchical surrogate model with dimensionality reduction technique for high-dimensional uncertainty propagation. International Journal for Numerical Methods in Engineering, 2020, 121, 2068-2085.	2.8	5
59	A new global sensitivity measure based on the elementary effects method. Computers and Structures, 2020, 229, 106183.	4.4	7
60	Bi-Objective Adaptive Kriging for Reliability Analysis with Random and Evidence Variables. AIAA Journal, 2020, 58, 1733-1747.	2.6	16
61	Structural reliability analysis based on ensemble learning of surrogate models. Structural Safety, 2020, 83, 101905.	5.3	75
62	Time-dependent reliability-based design optimization with probabilistic and interval uncertainties. Applied Mathematical Modelling, 2020, 80, 268-289.	4.2	14
63	A novel time-dependent system constraint boundary sampling technique for solving time-dependent reliability-based design optimization problems. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113342.	6.6	15
64	Global sensitivity analysis for multivariate output model and dynamic models. Reliability Engineering and System Safety, 2020, 204, 107195.	8.9	8
65	An efficient trajectory sampling design method for elementary effect based global sensitivity analysis. Communications in Statistics Part B: Simulation and Computation, 2020, , 1-16.	1.2	2
66	A novel dual-stage adaptive Kriging method for profust reliability analysis. Journal of Computational Physics, 2020, 419, 109701.	3.8	10
67	An efficient algorithm for time-dependent failure credibility by combining adaptive single-loop Kriging model with fuzzy simulation. Structural and Multidisciplinary Optimization, 2020, 62, 1025-1039.	3.5	11
68	The importance measure of fuzzy input on failure credibility under the fuzzy uncertainty. Aerospace Science and Technology, 2020, 107, 106320.	4.8	6
69	A nested single-loop Kriging model-based method for time-dependent failure credibility. Structural and Multidisciplinary Optimization, 2020, 62, 2881-2900.	3.5	3
70	Time-dependent reliability-based design optimization considering aleatory and epistemic uncertainties. Structural and Multidisciplinary Optimization, 2020, 62, 2297-2321.	3.5	3
71	A single-loop Kriging surrogate model method by considering the first failure instant for time-dependent reliability analysis and safety lifetime analysis. Mechanical Systems and Signal Processing, 2020, 145, 106963.	8.0	29
72	Advanced time-dependent reliability analysis based on adaptive sampling region with Kriging model. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 588-600.	0.7	5

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73	Active learning polynomial chaos expansion for reliability analysis by maximizing expected indicator function prediction error. International Journal for Numerical Methods in Engineering, 2020, 121, 3159-3177.	2.8	12
74	An efficient computational method for estimating failure credibility by combining genetic algorithm and active learning Kriging. Structural and Multidisciplinary Optimization, 2020, 62, 771-785.	3.5	9
75	Parameter global reliability sensitivity analysis with meta-models: A probability estimation-driven approach. Aerospace Science and Technology, 2020, 106, 106040.	4.8	6
76	Advanced solution strategies for time-dependent reliability based design optimization. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112916.	6.6	30
77	A novel extended crossing rate method for time-dependent hybrid reliability analysis under random and interval inputs. Engineering Optimization, 2020, 52, 1720-1742.	2.6	5
78	A novel reliability sensitivity analysis method based on directional sampling and Monte Carlo simulation. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 622-635.	0.7	8
79	An enhanced Kriging surrogate modeling technique for high-dimensional problems. Mechanical Systems and Signal Processing, 2020, 140, 106687.	8.0	36
80	A decoupled credibility-based design optimization method for fuzzy design variables by failure credibility surrogate modeling. Structural and Multidisciplinary Optimization, 2020, 62, 285-297.	3.5	4
81	A Decoupled Method for Credibility-Based Design Optimization with Fuzzy Variables. International Journal of Fuzzy Systems, 2020, 22, 844-858.	4.0	6
82	Surrogate modeling of high-dimensional problems via data-driven polynomial chaos expansions and sparse partial least square. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112906.	6.6	27
83	Non-intrusive imprecise stochastic simulation by line sampling. Structural Safety, 2020, 84, 101936.	5.3	27
84	A novel learning function based on Kriging for reliability analysis. Reliability Engineering and System Safety, 2020, 198, 106857.	8.9	70
85	Surrogate-assisted global sensitivity analysis: an overview. Structural and Multidisciplinary Optimization, 2020, 61, 1187-1213.	3.5	70
86	Safety analysis for the posfust reliability model under possibilistic input and fuzzy state. Aerospace Science and Technology, 2020, 99, 105739.	4.8	11
87	Probabilistic safety model and its efficient solution for structure with random and interval mixed uncertainties. Mechanism and Machine Theory, 2020, 147, 103782.	4.5	10
88	Adaptive subdomain sampling and its adaptive Kriging-based method for reliability and reliability sensitivity analyses. Structural and Multidisciplinary Optimization, 2020, 61, 1107-1121.	3.5	16
89	An efficient method for estimating time-dependent global reliability sensitivity. Structural and Multidisciplinary Optimization, 2020, 62, 851-871.	3.5	2
90	An efficient algorithm for estimating time-dependent failure credibility by embedding double-loop adaptive Kriging in dichotomy searching. Structural and Multidisciplinary Optimization, 2020, 62, 1353-1370.	3.5	2

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91	An efficient method based on AK-MCS for estimating failure probability function. Reliability Engineering and System Safety, 2020, 201, 106975.	8.9	23
92	Active sparse polynomial chaos expansion for system reliability analysis. Reliability Engineering and System Safety, 2020, 202, 107025.	8.9	43
93	A vine copula-based method for analyzing the moment-independent importance measure of the multivariate output. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 338-354.	0.7	1
94	A Bayesian Monte Carlo-based method for efficient computation of global sensitivity indices. Mechanical Systems and Signal Processing, 2019, 117, 498-516.	8.0	54
95	Safety life analysis under required failure credibility constraint for unsteady thermal structure with fuzzy input parameters. Structural and Multidisciplinary Optimization, 2019, 59, 43-59.	3.5	24
96	Time-dependent failure possibility analysis under consideration of fuzzy uncertainty. Fuzzy Sets and Systems, 2019, 367, 19-35.	2.7	40
97	An efficient method based on Bayes's theorem to estimate the failure-probability-based sensitivity measure. Mechanical Systems and Signal Processing, 2019, 115, 607-620.	8.0	34
98	Active Polynomial Chaos Expansion for Reliability-Based Design Optimization. AIAA Journal, 2019, 57, 5431-5446.	2.6	23
99	Efficient computational method based on AK-MCS and Bayes formula for time-dependent failure probability function. Structural and Multidisciplinary Optimization, 2019, 60, 1373-1388.	3.5	6
100	Gradient-enhanced high dimensional model representation via Bayesian inference. Knowledge-Based Systems, 2019, 184, 104903.	7.1	3
101	An efficient method combining adaptive Kriging and fuzzy simulation for estimating failure credibility. Aerospace Science and Technology, 2019, 92, 620-634.	4.8	42
102	Sensitivity analysis method for model with correlated inputs and multivariate output and its application to aircraft structure. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 373-404.	6.6	7
103	Time-dependent reliability analysis model under fuzzy state and its safety lifetime model. Structural and Multidisciplinary Optimization, 2019, 60, 2511-2529.	3.5	7
104	A coupled subset simulation and active learning kriging reliability analysis method for rare failure events. Structural and Multidisciplinary Optimization, 2019, 60, 2325-2341.	3.5	36
105	Failure probability-based global and regional sensitivity analysis using copula. Journal of Physics: Conference Series, 2019, 1324, 012007.	0.4	0
106	Dynamic reliability analysis for structure with temporal and spatial multi-parameter. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 1002-1013.	0.7	0
107	An efficient method for estimating the parameter global reliability sensitivity analysis by innovative single-loop process and embedded Kriging model. Mechanical Systems and Signal Processing, 2019, 133, 106288.	8.0	8
108	A Concise Transformation Combined With Adaptive Kriging Model for Efficiently Estimating Regional Sensitivity on Failure Probability. IEEE Access, 2019, 7, 135457-135471.	4.2	1

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109	Time-dependent failure credibility analysis and its optimization based computational methods. Engineering Structures, 2019, 181, 605-616.	5.3	25
110	An innovative estimation of failure probability function based on conditional probability of parameter interval and augmented failure probability. Mechanical Systems and Signal Processing, 2019, 123, 606-625.	8.0	27
111	An efficient and robust adaptive sampling method for polynomial chaos expansion in sparse Bayesian learning framework. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 654-674.	6.6	21
112	A new surrogate modeling method combining polynomial chaos expansion and Gaussian kernel in a sparse Bayesian learning framework. International Journal for Numerical Methods in Engineering, 2019, 120, 498-516.	2.8	7
113	A new dependence measure for importance analysis: Application to an environmental model. Applied Mathematical Modelling, 2019, 74, 43-61.	4.2	2
114	An efficient method for estimating global reliability sensitivity indices. Probabilistic Engineering Mechanics, 2019, 56, 35-49.	2.7	12
115	Time-variant reliability analysis based on high dimensional model representation. Reliability Engineering and System Safety, 2019, 188, 310-319.	8.9	20
116	Efficient methods by active learning Kriging coupled with variance reduction based sampling methods for time-dependent failure probability. Reliability Engineering and System Safety, 2019, 188, 23-35.	8.9	48
117	An elaborate algorithm for analyzing the Borgonovo moment-independent sensitivity by replacing the probability density function estimation with the probability estimation. Reliability Engineering and System Safety, 2019, 189, 99-108.	8.9	5
118	Non-intrusive stochastic analysis with parameterized imprecise probability models: II. Reliability and rare events analysis. Mechanical Systems and Signal Processing, 2019, 126, 227-247.	8.0	57
119	Aircraft Icing Severity Analysis Considering Three Uncertainty Types. AIAA Journal, 2019, 57, 1514-1522.	2.6	61
120	Distance correlation-based method for global sensitivity analysis of models with dependent inputs. Structural and Multidisciplinary Optimization, 2019, 60, 1189-1207.	3.5	2
121	An expanded sparse Bayesian learning method for polynomial chaos expansion. Mechanical Systems and Signal Processing, 2019, 128, 153-171.	8.0	16
122	A novel step-wise AK-MCS method for efficient estimation of fuzzy failure probability under probability inputs and fuzzy state assumption. Engineering Structures, 2019, 183, 340-350.	5.3	22
123	Non-intrusive stochastic analysis with parameterized imprecise probability models: I. Performance estimation. Mechanical Systems and Signal Processing, 2019, 124, 349-368.	8.0	60
124	Multi-level multi-fidelity sparse polynomial chaos expansion based on Gaussian process regression. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 360-377.	6.6	30
125	Reliability Sensitivity Based on Profust Model: An Application to Aircraft Icing Analysis. AIAA Journal, 2019, 57, 5390-5402.	2.6	10
126	AK-SYSi: an improved adaptive Kriging model for system reliability analysis with multiple failure modes by a refined U learning function. Structural and Multidisciplinary Optimization, 2019, 59, 263-278.	3.5	115

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127	Enhanced Morris method for global sensitivity analysis: good proxy of Sobol'™ index. Structural and Multidisciplinary Optimization, 2019, 59, 373-387.	3.5	25
128	Sparse polynomial chaos expansions for global sensitivity analysis with partial least squares and distance correlation. Structural and Multidisciplinary Optimization, 2019, 59, 229-247.	3.5	9
129	Dynamic reliability analysis model for structure with both random and interval uncertainties. International Journal of Mechanics and Materials in Design, 2019, 15, 521-537.	3.0	21
130	Multivariate output global sensitivity analysis using multi-output support vector regression. Structural and Multidisciplinary Optimization, 2019, 59, 2177-2187.	3.5	20
131	Generalized sensitivity indices based on vector projection for multivariate output. Applied Mathematical Modelling, 2019, 66, 592-610.	4.2	33
132	Efficient numerical simulation methods for estimating fuzzy failure probability based importance measure indices. Structural and Multidisciplinary Optimization, 2019, 59, 577-593.	3.5	12
133	Global Sensitivity Analysis of the Failure Probability Upper Bound to Random and Fuzzy Inputs. International Journal of Fuzzy Systems, 2019, 21, 454-467.	4.0	3
134	An efficient method for moment-independent global sensitivity analysis by dimensional reduction technique and principle of maximum entropy. Reliability Engineering and System Safety, 2019, 187, 174-182.	8.9	49
135	An adaptive multiple-Kriging-surrogate method for time-dependent reliability analysis. Applied Mathematical Modelling, 2019, 70, 545-571.	4.2	57
136	Global sensitivity analysis based on distance correlation for structural systems with multivariate output. Engineering Structures, 2018, 167, 74-83.	5.3	18
137	Global sensitivity analysis based on Cini's mean difference. Structural and Multidisciplinary Optimization, 2018, 58, 1523-1535.	3.5	3
138	A reliability analysis method based on analytical expressions of the first four moments of the surrogate model of the performance function. Mechanical Systems and Signal Processing, 2018, 111, 47-67.	8.0	42
139	Failure-mode importance measures in structural system with multiple failure modes and its estimation using copula. Reliability Engineering and System Safety, 2018, 174, 53-59.	8.9	26
140	Safety life analysis under the required failure possibility constraint for structure involving fuzzy uncertainty. Structural and Multidisciplinary Optimization, 2018, 58, 287-303.	3.5	19
141	Root finding method of failure credibility for fuzzy safety analysis. Structural and Multidisciplinary Optimization, 2018, 58, 1917-1934.	3.5	14
142	Sensitivity analysis of correlated outputs and its application to a dynamic model. Environmental Modelling and Software, 2018, 105, 39-53.	4.5	4
143	An efficient global reliability sensitivity analysis algorithm based on classification of model output and subset simulation. Structural Safety, 2018, 74, 49-57.	5.3	29
144	A probabilistic procedure for quantifying the relative importance of model inputs characterized by second-order probability models. International Journal of Approximate Reasoning, 2018, 98, 78-95.	3.3	12

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145	An efficient reliability analysis method combining adaptive Kriging and modified importance sampling for small failure probability. Structural and Multidisciplinary Optimization, 2018, 58, 1383-1393.	3.5	69
146	An efficient sampling approach for variance-based sensitivity analysis based on the law of total variance in the successive intervals without overlapping. Mechanical Systems and Signal Processing, 2018, 106, 495-510.	8.0	23
147	Variance-based sensitivity analysis with the uncertainties of the input variables and their distribution parameters. Communications in Statistics Part B: Simulation and Computation, 2018, 47, 1103-1125.	1.2	3
148	Multivariate global sensitivity analysis for dynamic models based on energy distance. Structural and Multidisciplinary Optimization, 2018, 57, 279-291.	3.5	27
149	A modified importance sampling method for structural reliability and its global reliability sensitivity analysis. Structural and Multidisciplinary Optimization, 2018, 57, 1625-1641.	3.5	57
150	Multivariate global sensitivity analysis for dynamic models based on wavelet analysis. Reliability Engineering and System Safety, 2018, 170, 20-30.	8.9	50
151	Borgonovo moment independent global sensitivity analysis by Gaussian radial basis function meta-model. Applied Mathematical Modelling, 2018, 54, 378-392.	4.2	39
152	Copula-based decomposition approach for the derivative-based sensitivity of variance contributions with dependent variables. Reliability Engineering and System Safety, 2018, 169, 437-450.	8.9	30
153	Adaptive sparse polynomial chaos expansions for global sensitivity analysis based on support vector regression. Computers and Structures, 2018, 194, 86-96.	4.4	105
154	A new method for model validation with multivariate output. Reliability Engineering and System Safety, 2018, 169, 579-592.	8.9	18
155	Global sensitivity analysis for fuzzy inputs based on the decomposition of fuzzy output entropy. Engineering Optimization, 2018, 50, 1078-1096.	2.6	11
156	Cross-covariance based global dynamic sensitivity analysis. Mechanical Systems and Signal Processing, 2018, 100, 846-862.	8.0	20
157	Sparse polynomial chaos expansion based on D-MORPH regression. Applied Mathematics and Computation, 2018, 323, 17-30.	2.2	50
158	Global sensitivity analysis based on random variables with interval parameters by metamodel-based optimisation. International Journal of Systems Science: Operations and Logistics, 2018, 5, 268-281.	3.0	3
159	Aircraft icing safety analysis method in presence of fuzzy inputs and fuzzy state. Aerospace Science and Technology, 2018, 82-83, 172-184.	4.8	35
160	Reliability Analysis by Combining Higher-Order Unscented Transformation and Fourth-Moment Method. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2018, 4, .	1.7	17
161	Multivariate Global Sensitivity Analysis Based on Distance Components Decomposition. Risk Analysis, 2018, 38, 2703-2721.	2.7	17
162	Time-dependent safety and sensitivity analysis for structure involving both random and fuzzy inputs. Structural and Multidisciplinary Optimization, 2018, 58, 2655-2675.	3.5	11

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163	Efficient numerical algorithm of profust reliability analysis: An application to wing box structure. Aerospace Science and Technology, 2018, 80, 203-211.	4.8	27
164	An efficient computational method of a moment-independent importance measure using quantile regression. Mechanical Systems and Signal Processing, 2018, 109, 235-246.	8.0	18
165	A new efficient simulation method based on Bayes' theorem and importance sampling Markov chain simulation to estimate the failure-probability-based global sensitivity measure. Aerospace Science and Technology, 2018, 79, 364-372.	4.8	29
166	Importance analysis for model with mixed uncertainties. Fuzzy Sets and Systems, 2017, 310, 90-107.	2.7	9
167	Validation metric based on Mahalanobis distance for models with multiple correlated responses. Reliability Engineering and System Safety, 2017, 159, 80-89.	8.9	20
168	An efficient sampling method for variance-based sensitivity analysis. Structural Safety, 2017, 65, 74-83.	5.3	37
169	A kernel estimate method for characteristic function-based uncertainty importance measure. Applied Mathematical Modelling, 2017, 42, 58-70.	4.2	13
170	Temporal and spatial multi-parameter dynamic reliability and global reliability sensitivity analysis based on the extreme value moments. Structural and Multidisciplinary Optimization, 2017, 56, 117-129.	3.5	66
171	Mixed kernel function support vector regression for global sensitivity analysis. Mechanical Systems and Signal Processing, 2017, 96, 201-214.	8.0	88
172	Global sensitivity analysis using support vector regression. Applied Mathematical Modelling, 2017, 49, 587-598.	4.2	78
173	Analytical variance based global sensitivity analysis for models with correlated variables. Applied Mathematical Modelling, 2017, 45, 748-767.	4.2	28
174	A generalized separation for the variance contributions of input variables and their distribution parameters. Applied Mathematical Modelling, 2017, 47, 381-399.	4.2	19
175	Multivariate sensitivity analysis based on the direction of eigen space through principal component analysis. Reliability Engineering and System Safety, 2017, 165, 1-10.	8.9	36
176	General validation and decomposition of the variance-based measures for models with correlated inputs. Aerospace Science and Technology, 2017, 62, 75-86.	4.8	7
177	Estimation of the Generalized Sobol'ns Sensitivity Index for Multivariate Output Model Using Unscented Transformation. Journal of Structural Engineering, 2017, 143, 06016005.	3.4	2
178	Structural reliability sensitivity analysis based on classification of model output. Aerospace Science and Technology, 2017, 71, 52-61.	4.8	65
179	Reliability Analysis for Structures With Multiple Temporal and Spatial Parameters Based on the Effective First-Crossing Point. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	32
180	New Global Sensitivity Measure Based on Fuzzy Distance. Journal of Engineering Mechanics - ASCE, 2017, 143, 04017125.	2.9	1

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181	Variance-based sensitivity analysis for models with correlated inputs and its state dependent parameter solution. Structural and Multidisciplinary Optimization, 2017, 56, 919-937.	3.5	13
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