Yan Shi

List of Publications by Year
in descending order

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137	4,315	117625	133252
papers	citations	34 h-index	59 g-index

137	137	137	1512
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Compound kriging-based importance sampling for reliability analysis of systems with multiple failure modes. Engineering Optimization, 2022, 54, 805-829.	2.6	6
3	Adaboost-based ensemble of polynomial chaos expansion with adaptive sampling. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114238.	6.6	10
4	Safety lifetime analysis method for multi-mode time-dependent structural system. Chinese Journal of Aeronautics, 2022, 35, 294-308.	5.3	2
5	Distributed adaptive impedance control of networked Lagrangian systems with neighborhood interaction feedback. International Journal of Robust and Nonlinear Control, 2022, 32, 2251-2272.	3.7	5
6	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
7	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
8	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
9	Fuzzy importance sampling method for estimating failure possibility. Fuzzy Sets and Systems, 2021, 424, 170-184.	2.7	5
10	An efficient method for estimating fuzzy failure probability-based global fuzzy reliability sensitivity. Engineering Optimization, 2021, 53, 576-593.	2.6	1
11	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
12	Active learning Bayesian support vector regression model for global approximation. Information Sciences, 2021, 544, 549-563.	6.9	29
13	Support vector machine-based importance sampling for rare event estimation. Structural and Multidisciplinary Optimization, 2021, 63, 1609-1631.	3.5	15
14	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
15	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
16	Model identification and parametric adaptive control of hydraulic manipulator with neighborhood field optimization. IET Control Theory and Applications, 2021, 15, 1599-1614.	2.1	6
17	Adaptive Kriging Model for Fuzzy Safety Degree Analysis to Time-Dependent Structure. AIAA Journal, 2021, 59, 1528-1538.	2.6	2
18	Importance analysis on failure credibility of the fuzzy structure. Journal of Intelligent and Fuzzy Systems, 2021, 40, 12339-12359.	1.4	1

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19	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
20	AK-DS: An adaptive Kriging-based directional sampling method for reliability analysis. Mechanical Systems and Signal Processing, 2021, 156, 107610.	8.0	52
21	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
22	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
23	Time-dependent structural system reliability analysis model and its efficiency solution. Reliability Engineering and System Safety, 2021, 216, 108029.	8.9	11
24	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
25	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
26	Measuring regional effects of model inputs with random Forest. Communications in Statistics Part B: Simulation and Computation, 2020, 49, 2444-2461.	1.2	0
27	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
28	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
29	Adaptive Kriging coupled with importance sampling strategies for time-variant hybrid reliability analysis. Applied Mathematical Modelling, 2020, 77, 1820-1841.	4.2	23
30	Line sampling-based local and global reliability sensitivity analysis. Structural and Multidisciplinary Optimization, 2020, 61, 267-281.	3.5	20
31	Novel fuzzy possibilistic safety degree measure model. Structural and Multidisciplinary Optimization, 2020, 61, 437-456.	3.5	3
32	Novel decoupling method for time-dependent reliability-based design optimization. Structural and Multidisciplinary Optimization, 2020, 61, 507-524.	3.5	18
33	A new global sensitivity measure based on the elementary effects method. Computers and Structures, 2020, 229, 106183.	4.4	7
34	Bi-Objective Adaptive Kriging for Reliability Analysis with Random and Evidence Variables. AIAA Journal, 2020, 58, 1733-1747.	2.6	16
35	Structural reliability analysis based on ensemble learning of surrogate models. Structural Safety, 2020, 83, 101905.	5.3	75
36	Time-dependent reliability-based design optimization with probabilistic and interval uncertainties. Applied Mathematical Modelling, 2020, 80, 268-289.	4.2	14

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37	Global sensitivity analysis for multivariate output model and dynamic models. Reliability Engineering and System Safety, 2020, 204, 107195.	8.9	8
38	A novel dual-stage adaptive Kriging method for profust reliability analysis. Journal of Computational Physics, 2020, 419, 109701.	3.8	10
39	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
40	The importance measure of fuzzy input on failure credibility under the fuzzy uncertainty. Aerospace Science and Technology, 2020, 107, 106320.	4.8	6
41	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
42	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
43	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
44	Parameter global reliability sensitivity analysis with meta-models: A probability estimation-driven approach. Aerospace Science and Technology, 2020, 106, 106040.	4.8	6
45	Advanced solution strategies for time-dependent reliability based design optimization. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112916.	6.6	30
46	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
47	An enhanced Kriging surrogate modeling technique for high-dimensional problems. Mechanical Systems and Signal Processing, 2020, 140, 106687.	8.0	36
48	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
49	Non-intrusive imprecise stochastic simulation by line sampling. Structural Safety, 2020, 84, 101936.	5.3	27
50	A novel learning function based on Kriging for reliability analysis. Reliability Engineering and System Safety, 2020, 198, 106857.	8.9	70
51	Surrogate-assisted global sensitivity analysis: an overview. Structural and Multidisciplinary Optimization, 2020, 61, 1187-1213.	3.5	70
52	Safety analysis for the posfust reliability model under possibilistic input and fuzzy state. Aerospace Science and Technology, 2020, 99, 105739.	4.8	11
53	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
54	Adaptive subdomain sampling and its adaptive Krigingâ€“based method for reliability and reliability sensitivity analyses. Structural and Multidisciplinary Optimization, 2020, 61, 1107-1121.	3.5	16

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55	An efficient method for estimating time-dependent global reliability sensitivity. Structural and Multidisciplinary Optimization, 2020, 62, 851-871.	3.5	2
56	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
57	An efficient method based on AK-MCS for estimating failure probability function. Reliability Engineering and System Safety, 2020, 201, 106975.	8.9	23
58	A vine copulaâ€“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
59	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
60	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
61	An efficient method based on Bayesâ€™ theorem to estimate the failure-probability-based sensitivity measure. Mechanical Systems and Signal Processing, 2019, 115, 607-620.	8.0	34
62	Active Polynomial Chaos Expansion for Reliability-Based Design Optimization. AIAA Journal, 2019, 57, 5431-5446.	2.6	23
63	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
64	An efficient method combining adaptive Kriging and fuzzy simulation for estimating failure credibility. Aerospace Science and Technology, 2019, 92, 620-634.	4.8	42
65	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
66	Time-dependent reliability analysis model under fuzzy state and its safety lifetime model. Structural and Multidisciplinary Optimization, 2019, 60, 2511-2529.	3.5	7
67	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
68	Failure probability-based global and regional sensitivity analysis using copula. Journal of Physics: Conference Series, 2019, 1324, 012007.	0.4	0
69	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
70	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
71	Time-dependent failure credibility analysis and its optimization based computational methods. Engineering Structures, 2019, 181, 605-616.	5.3	25
72	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

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73	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
74	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
75	A new dependence measure for importance analysis: Application to an environmental model. Applied Mathematical Modelling, 2019, 74, 43-61.	4.2	2
76	An efficient method for estimating global reliability sensitivity indices. Probabilistic Engineering Mechanics, 2019, 56, 35-49.	2.7	12
77	Time-variant reliability analysis based on high dimensional model representation. Reliability Engineering and System Safety, 2019, 188, 310-319.	8.9	20
78	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
79	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
80	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
81	Aircraft Icing Severity Analysis Considering Three Uncertainty Types. AIAA Journal, 2019, 57, 1514-1522.	2.6	61
82	Distance correlation-based method for global sensitivity analysis of models with dependent inputs. Structural and Multidisciplinary Optimization, 2019, 60, 1189-1207.	3.5	2
83	An expanded sparse Bayesian learning method for polynomial chaos expansion. Mechanical Systems and Signal Processing, 2019, 128, 153-171.	8.0	16
84	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
85	Non-intrusive stochastic analysis with parameterized imprecise probability models: I. Performance estimation. Mechanical Systems and Signal Processing, 2019, 124, 349-368.	8.0	60
86	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
87	Reliability Sensitivity Based on Profust Model: An Application to Aircraft Icing Analysis. AIAA Journal, 2019, 57, 5390-5402.	2.6	10
88	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
89	Enhanced Morris method for global sensitivity analysis: good proxy of Sobolâ€™ index. Structural and Multidisciplinary Optimization, 2019, 59, 373-387.	3.5	25
90	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

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91	Generalized sensitivity indices based on vector projection for multivariate output. Applied Mathematical Modelling, 2019, 66, 592-610.	4.2	33
92	Efficient numerical simulation methods for estimating fuzzy failure probability based importance measure indices. Structural and Multidisciplinary Optimization, 2019, 59, 577-593.	3.5	12
93	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
94	An adaptive multiple-Kriging-surrogate method for time-dependent reliability analysis. Applied Mathematical Modelling, 2019, 70, 545-571.	4.2	57
95	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
96	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
97	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
98	Root finding method of failure credibility for fuzzy safety analysis. Structural and Multidisciplinary Optimization, 2018, 58, 1917-1934.	3.5	14
99	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
100	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
101	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
102	Multivariate global sensitivity analysis for dynamic models based on energy distance. Structural and Multidisciplinary Optimization, 2018, 57, 279-291.	3.5	27
103	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
104	Multivariate global sensitivity analysis for dynamic models based on wavelet analysis. Reliability Engineering and System Safety, 2018, 170, 20-30.	8.9	50
105	Borgonovo moment independent global sensitivity analysis by Gaussian radial basis function meta-model. Applied Mathematical Modelling, 2018, 54, 378-392.	4.2	39
106	Adaptive sparse polynomial chaos expansions for global sensitivity analysis based on support vector regression. Computers and Structures, 2018, 194, 86-96.	4.4	105
107	Cross-covariance based global dynamic sensitivity analysis. Mechanical Systems and Signal Processing, 2018, 100, 846-862.	8.0	20
108	Sparse polynomial chaos expansion based on D-MORPH regression. Applied Mathematics and Computation, 2018, 323, 17-30.	2.2	50

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109	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
110	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
111	Efficient numerical algorithm of profust reliability analysis: An application to wing box structure. Aerospace Science and Technology, 2018, 80, 203-211.	4.8	27
112	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
113	An inequality unscented transformation for estimating the statistical moments. Applied Mathematical Modelling, 2018, 62, 21-37.	4.2	2
114	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
115	An efficient sampling method for variance-based sensitivity analysis. Structural Safety, 2017, 65, 74-83.	5.3	37
116	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
117	Global sensitivity analysis using support vector regression. Applied Mathematical Modelling, 2017, 49, 587-598.	4.2	78
118	Structural reliability sensitivity analysis based on classification of model output. Aerospace Science and Technology, 2017, 71, 52-61.	4.8	65
119	Maximum probable life time analysis under the required time-dependent failure probability constraint and its meta-model estimation. Structural and Multidisciplinary Optimization, 2017, 55, 1439-1451.	3.5	27
120	A new kind of sensitivity index for multivariate output. Reliability Engineering and System Safety, 2016, 147, 123-131.	8.9	27
121	Structural Reliability Analysis Using Combined Space Partition Technique and Unscented Transformation. Journal of Structural Engineering, 2016, 142, .	3.4	30
122	Variable importance analysis: A comprehensive review. Reliability Engineering and System Safety, 2015, 142, 399-432.	8.9	322
123	Efficient structural reliability analysis method based on advanced Kriging model. Applied Mathematical Modelling, 2015, 39, 781-793.	4.2	146
124	Extended MonteÂCarlo Simulation for Parametric Global Sensitivity Analysis and Optimization. AIAA Journal, 2014, 52, 867-878.	2.6	55
125	Regional sensitivity analysis using revised mean and variance ratio functions. Reliability Engineering and System Safety, 2014, 121, 121-135.	8.9	27
126	A new method for evaluating Borgonovo moment-independent importance measure with its application in an aircraft structure. Reliability Engineering and System Safety, 2014, 132, 163-175.	8.9	39

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127	An application of the Kriging method in global sensitivity analysis with parameter uncertainty. Applied Mathematical Modelling, 2013, 37, 6543-6555.	4.2	80
128	A new variance-based global sensitivity analysis technique. Computer Physics Communications, 2013, 184, 2540-2551.	7.5	24
129	A new algorithm for variance based importance analysis of models with correlated inputs. Applied Mathematical Modelling, 2013, 37, 864-875.	4.2	30
130	Monte Carlo simulation for moment-independent sensitivity analysis. Reliability Engineering and System Safety, 2013, 110, 60-67.	8.9	78
131	Moment-independent importance measure of basic variable and its state dependent parameter solution. Structural Safety, 2012, 38, 40-47.	5.3	113
132	Importance analysis for models with correlated input variables by the state dependent parameters method. Computers and Mathematics With Applications, 2011, 62, 4547-4556.	2.7	12
133	Reliability sensitivity by method of moments. Applied Mathematical Modelling, 2010, 34, 2860-2871.	4.2	56
134	Saddlepoint approximation based structural reliability analysis with non-normal random variables. Science China Technological Sciences, 2010, 53, 566-576.	4.0	11
135	Moment-independent importance measure of basic random variable and its probability density evolution solution. Science China Technological Sciences, 2010, 53, 1138-1145.	4.0	117
136	Subset simulation for structural reliability sensitivity analysis. Reliability Engineering and System Safety, 2009, 94, 658-665.	8.9	208
137	Reliability sensitivity method by line sampling. Structural Safety, 2008, 30, 517-532.	5.3	163