List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Artificial Neural Network (ANN) - Bayesian Probability Framework (BPF) based method of dynamic force reconstruction under multi-source uncertainties. Knowledge-Based Systems, 2022, 237, 107796.	7.1	83
2	Time-dependent reliability-based optimization for structural-topological configuration design under convex-bounded uncertain modeling. Reliability Engineering and System Safety, 2022, 221, 108361.	8.9	70
3	Kalman filter–random forestâ€based method of dynamic load identification for structures with interval uncertainties. Structural Control and Health Monitoring, 2022, 29, .	4.0	7
4	Size-controlled cross-scale robust topology optimization based on adaptive subinterval dimension-wise method considering interval uncertainties. Engineering With Computers, 2022, 38, 5321-5338.	6.1	17
5	Convexity-oriented reliability-based topology optimization (CRBTO) in the time domain using the equivalent static loads method. Aerospace Science and Technology, 2022, 123, 107490.	4.8	10
6	Importance measure analysis of design variables and uncertain parameters in multidisciplinary systems. Applied Mathematical Modelling, 2022, 107, 296-315.	4.2	3
7	A robust topology optimization method considering bounded field parameters with uncertainties based on the variable time step parametric level-set method. Applied Mathematical Modelling, 2022, 107, 441-463.	4.2	13
8	Twoâ€step damage identification method for composite laminates using distributed piezoelectric and strain sensors. Structural Control and Health Monitoring, 2022, 29, .	4.0	2
9	Non-probabilistic reliability-based robust design of micro-scale topology optimization (NRRD-MTO) for structural vibro-acoustic problem under harmonic excitation and natural frequency constraints. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	14
10	Evidence theory-based reliability optimization for cross-scale topological structures with global stress, local displacement, and micro-manufacturing constraints. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	57
11	An interval-oriented dynamic robust topology optimization (DRTO) approach for continuum structures based on the parametric Level-Set method (PLSM) and the equivalent static loads method (ESLM). Structural and Multidisciplinary Optimization, 2022, 65, .	3.5	6
12	Dynamic Uncertainty Quantification and Risk Prediction Based on the Grey Mathematics and Outcrossing Theory. Applied Sciences (Switzerland), 2022, 12, 5389.	2.5	2
13	Multisource uncertain dynamic load identification fitted by Legendre polynomial based on precise integration and the <scp>Savitzky–Golay</scp> filters. International Journal for Numerical Methods in Engineering, 2022, 123, 4974-5006.	2.8	3
14	A novel interval dynamic reliability computation approach for the risk evaluation of vibration active control systems based on PID controllers. Applied Mathematical Modelling, 2021, 92, 422-446.	4.2	112
15	Non-probabilistic Reliability-based Topology Optimization (NRBTO) Scheme for Continuum Structures Based on the parameterized Level-Set method and Interval Mathematics. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113477.	6.6	21
16	Reliability-based topology optimization for freely vibrating continuum structures with unknown-but-bounded uncertainties. Structural and Multidisciplinary Optimization, 2021, 63, 2751-2770.	3.5	6
17	Reliability-based topology optimization framework of two-dimensional phononic crystal band-gap structures based on interval series expansion and mapping conversion method. International Journal of Mechanical Sciences, 2021, 196, 106265.	6.7	25
18	A two-step interval structural damage identification approach based on model updating and set-membership technique. Measurement: Journal of the International Measurement Confederation, 2021, 182, 109464.	5.0	11

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19	A dynamic force reconstruction method based on modified Kalman filter using acceleration responses under multi-source uncertain samples. Mechanical Systems and Signal Processing, 2021, 159, 107761.	8.0	29
20	A support vector regression (SVR)-based method for dynamic load identification using heterogeneous responses under interval uncertainties. Applied Soft Computing Journal, 2021, 110, 107599.	7.2	31
21	Reliability-based topology optimization for heterogeneous composite structures under interval and convex mixed uncertainties. Applied Mathematical Modelling, 2021, 99, 628-652.	4.2	19
22	A novel dynamic reliability-based topology optimization (DRBTO) framework for continuum structures via interval-process collocation and the first-passage theories. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114107.	6.6	48
23	Uncertaintyâ€oriented doubleâ€scale topology optimization with macroreliability limitation and micromanufacturing control. International Journal for Numerical Methods in Engineering, 2021, 122, 2254-2286.	2.8	5
24	Uncertainty-oriented topology optimization of interval parametric structures with local stress and displacement reliability constraints. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112644.	6.6	12
25	Structural Design Optimization Based on the Moving Baseline Strategy. Acta Mechanica Solida Sinica, 2020, 33, 307-326.	1.9	9
26	An adaptive collocation method for structural fuzzy uncertainty analysis. Engineering Computations, 2020, 37, 2983-2998.	1.4	3
27	The optimal controller design framework for PID-based vibration active control systems via non-probabilistic time-dependent reliability measure. ISA Transactions, 2020, 105, 129-145.	5.7	25
28	A novel method of distributed dynamic load identification for aircraft structure considering multi-source uncertainties. Structural and Multidisciplinary Optimization, 2020, 61, 1929-1952.	3.5	57
29	A radial basis function artificial neural network (RBF ANN) based method for uncertain distributed force reconstruction considering signal noises and material dispersion. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112954.	6.6	46
30	A non-probabilistic time-variant reliable control method for structural vibration suppression problems with interval uncertainties. Mechanical Systems and Signal Processing, 2019, 115, 301-322.	8.0	65
31	A dual-layer dimension-wise fuzzy finite element method for structural analysis with epistemic uncertainties. Fuzzy Sets and Systems, 2019, 367, 68-81.	2.7	8
32	Scale-span stress-constrained topology optimization for continuum structures integrating truss-like microstructures and solid material. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 900-925.	6.6	7
33	A novel methodology of sequential optimization and non-probabilistic time-dependent reliability analysis for multidisciplinary systems. Aerospace Science and Technology, 2019, 94, 105389.	4.8	32
34	An iterative dimension-by-dimension method for structural interval response prediction with multidimensional uncertain variables. Aerospace Science and Technology, 2019, 86, 572-581.	4.8	59
35	A nonprobabilistic structural damage identification approach based on orthogonal polynomial expansion and interval mathematics. Structural Control and Health Monitoring, 2019, 26, e2378.	4.0	8
36	A nonprobabilistic reliability–based topology optimization method of compliant mechanisms with interval uncertainties. International Journal for Numerical Methods in Engineering, 2019, 119, 1419-1438.	2.8	16

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37	Sequential optimization and fuzzy reliability analysis for multidisciplinary systems. Structural and Multidisciplinary Optimization, 2019, 60, 1079-1095.	3.5	33
38	Truss layout design under nonprobabilistic reliabilityâ€based topology optimization framework with interval uncertainties. International Journal for Numerical Methods in Engineering, 2019, 119, 1307-1324.	2.8	8
39	Comparison of the reliability-based and safety factor methods for structural design. Applied Mathematical Modelling, 2019, 72, 68-84.	4.2	49
40	A dynamic evolution scheme for structures with interval uncertainties by using bidirectional sequential Kriging method. Computer Methods in Applied Mechanics and Engineering, 2019, 348, 712-729.	6.6	29
41	An inverse method for distributed dynamic load identification of structures with interval uncertainties. Advances in Engineering Software, 2019, 131, 77-89.	3.8	89
42	A novel reliabilityâ€based topology optimization framework for the concurrent design of solid and trussâ€like material structures with unknownâ€butâ€bounded uncertainties. International Journal for Numerical Methods in Engineering, 2019, 119, 239-260.	2.8	10
43	A Bayesian collocation method for static analysis of structures with unknown-but-bounded uncertainties. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 727-745.	6.6	23
44	Nonprobabilistic reliability oriented topological optimization for multi-material heat-transfer structures with interval uncertainties. Structural and Multidisciplinary Optimization, 2019, 59, 1599-1620.	3.5	16
45	Structural design optimization based on hybrid time-variant reliability measure under non-probabilistic convex uncertainties. Applied Mathematical Modelling, 2019, 69, 330-354.	4.2	27
46	Interval uncertainty analysis for static response of structures using radial basis functions. Applied Mathematical Modelling, 2019, 69, 425-440.	4.2	31
47	Optimal Maintenance Design-Oriented Nonprobabilistic Reliability Methodology for Existing Structures Under Static and Dynamic Mixed Uncertainties. IEEE Transactions on Reliability, 2019, 68, 496-513.	4.6	44
48	Non-probabilistic reliability-based topology optimization of continuum structures considering local stiffness and strength failure. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 788-809.	6.6	20
49	Non-probabilistic Bayesian update method for model validation. Applied Mathematical Modelling, 2018, 58, 388-403.	4.2	16
50	Hybrid time-variant reliability estimation for active control structures under aleatory and epistemic uncertainties. Journal of Sound and Vibration, 2018, 419, 469-492.	3.9	44
51	A novel reliability-based two-level optimization method for composite laminated structures. Composite Structures, 2018, 192, 336-346.	5.8	20
52	Time-dependent reliability assessment of fatigue crack growth modeling based on perturbation series expansions and interval mathematics. Theoretical and Applied Fracture Mechanics, 2018, 95, 104-118.	4.7	36
53	A novel methodology of reliability-based multidisciplinary design optimization under hybrid interval and fuzzy uncertainties. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 439-457.	6.6	74
54	Active force control of structure-borne sound based on robust optimization subjected to an irregular cavity with uncertainties. Aerospace Science and Technology, 2018, 73, 318-331.	4.8	19

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55	A dimension-wise method and its improvement for multidisciplinary interval uncertainty analysis. Applied Mathematical Modelling, 2018, 59, 680-695.	4.2	100
56	An efficient single-loop strategy for reliability-based multidisciplinary design optimization under non-probabilistic set theory. Aerospace Science and Technology, 2018, 73, 148-163.	4.8	29
57	Uncertainty quantification of multi-dimensional parameters for composite laminates based on grey mathematical theory. Applied Mathematical Modelling, 2018, 55, 299-313.	4.2	15
58	A nonprobabilistic time-variant reliability-based optimization approach to the reliable active controller design of structural vibration considering convex uncertainties. Structural Control and Health Monitoring, 2018, 25, e2269.	4.0	3
59	Non-probabilistic time-variant reliability assessment (NTRA) for the active control of vibration systems with convex uncertainties. ISA Transactions, 2018, 83, 276-289.	5.7	25
60	Anisotropic reduction factor-based damage identification method for fiber-reinforced composite laminates. Structural Control and Health Monitoring, 2018, 25, e2253.	4.0	1
61	Multiscale reliability-based topology optimization methodology for truss-like microstructures with unknown-but-bounded uncertainties. Computer Methods in Applied Mechanics and Engineering, 2018, 339, 358-388.	6.6	33
62	Sequential multidisciplinary design optimization and reliability analysis under interval uncertainty. Aerospace Science and Technology, 2018, 80, 508-519.	4.8	52
63	Set-membership identification technique for structural damage based on the dynamic responses with noises. Structural Control and Health Monitoring, 2017, 24, e1868.	4.0	7
64	Interval prediction of responses for uncertain multidisciplinary system. Structural and Multidisciplinary Optimization, 2017, 55, 1945-1964.	3.5	16
65	Structural time-dependent reliability assessment of the vibration active control system with unknown-but-bounded uncertainties. Structural Control and Health Monitoring, 2017, 24, e1965.	4.0	53
66	A novel method of Newton iteration-based interval analysis for multidisciplinary systems. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	14
67	Non-probabilistic stability reliability measure for active vibration control system with interval parameters. Journal of Sound and Vibration, 2017, 387, 1-15.	3.9	12
68	Reliability estimation of fatigue crack growth prediction via limited measured data. International Journal of Mechanical Sciences, 2017, 121, 44-57.	6.7	86
69	A novel method of non-probabilistic reliability-based topology optimization corresponding to continuum structures with unknown but bounded uncertainties. Computer Methods in Applied Mechanics and Engineering, 2017, 326, 573-595.	6.6	103
70	The need for introduction of non-probabilistic interval conceptions into structural analysis and design. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	5.1	49
71	Time-Dependent Reliability Modeling and Analysis Method for Mechanics Based on Convex Process. Mathematical Problems in Engineering, 2015, 2015, 1-16.	1.1	10
72	Time-variant reliability model and its measure index of structures based on a non-probabilistic interval process. Acta Mechanica, 2015, 226, 3221-3241.	2.1	36

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73	Hybrid reliability analysis of structures with multi-source uncertainties. Acta Mechanica, 2014, 225, 413-430.	2.1	78
74	A feasible implementation procedure for interval analysis method from measurement data. Applied Mathematical Modelling, 2014, 38, 2377-2397.	4.2	48
75	Safety estimation of structural systems via interval analysis. Chinese Journal of Aeronautics, 2013, 26, 614-623.	5.3	18
76	Response analysis based on smallest interval-set of parameters for structures with uncertainty. Applied Mathematics and Mechanics (English Edition), 2012, 33, 1153-1166.	3.6	9
77	Uncertainty quantification and propagation analysis of structures based on measurement data. Mathematical and Computer Modelling, 2011, 54, 2725-2735.	2.0	49
78	A Stressâ€Influenceâ€Function with Adaptive Strength Feature (SIFâ€ASF) Approach for Stress Constrained Continuum Topology Optimization via Smallâ€Ioop Sequential Strategy. International Journal for Numerical Methods in Engineering, 0, , .	2.8	0