

Michael Beer

List of Publications by Year in descending order

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218
papers

4,960
citations

134610

34
h-index

145109

60
g-index

225
all docs

225
docs citations

225
times ranked

2504
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-driven and active learning of variance-based sensitivity indices with Bayesian probabilistic integration. <i>Mechanical Systems and Signal Processing</i> , 2022, 163, 108106.	4.4	17
2	Wind data extrapolation and stochastic field statistics estimation via compressive sampling and low rank matrix recovery methods. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 107975.	4.4	10
3	Polyphase uncertainty analysis through virtual modelling technique. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 108013.	4.4	11
4	Relaxed power spectrum estimation from multiple data records utilising subjective probabilities. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108346.	4.4	6
5	Reliability-based design optimization of structural systems under stochastic excitation: An overview. <i>Mechanical Systems and Signal Processing</i> , 2022, 166, 108397.	4.4	39
6	Towards the NASA UQ Challenge 2019: Systematically forward and inverse approaches for uncertainty propagation and quantification. <i>Mechanical Systems and Signal Processing</i> , 2022, 165, 108387.	4.4	8
7	Nonparametric Bayesian stochastic model updating with hybrid uncertainties. <i>Mechanical Systems and Signal Processing</i> , 2022, 163, 108195.	4.4	23
8	Bayesian inversion for imprecise probabilistic models using a novel entropy-based uncertainty quantification metric. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 107954.	4.4	8
9	Structural synthesis considering mixed discrete"continuous design variables: A Bayesian framework. <i>Mechanical Systems and Signal Processing</i> , 2022, 162, 108042.	4.4	3
10	Robust data-driven human reliability analysis using credal networks. <i>Reliability Engineering and System Safety</i> , 2022, 218, 107990.	5.1	12
11	Identification of human errors and influencing factors: A machine learning approach. <i>Safety Science</i> , 2022, 146, 105528.	2.6	17
12	Asymptotic Bayesian Optimization: A Markov sampling-based framework for design optimization. <i>Probabilistic Engineering Mechanics</i> , 2022, 67, 103178.	1.3	5
13	Transfer prior knowledge from surrogate modelling: A meta-learning approach. <i>Computers and Structures</i> , 2022, 260, 106719.	2.4	9
14	Joint Statistics of Natural Frequencies Corresponding to Structural Systems with Singular Random Parameter Matrices. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	2
15	Operator Norm-Based Statistical Linearization to Bound the First Excursion Probability of Nonlinear Structures Subjected to Imprecise Stochastic Loading. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.1	2
16	Excitation"response relationships for linear structural systems with singular parameter matrices: A periodized harmonic wavelet perspective. <i>Mechanical Systems and Signal Processing</i> , 2022, 169, 108701.	4.4	10
17	A GRU-based ensemble learning method for time-variant uncertain structural response analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114516.	3.4	18
18	A new perspective on the simulation of cross-correlated random fields. <i>Structural Safety</i> , 2022, 96, 102201.	2.8	15

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19	Seismic Response Meta-model of High-Rise Frame Structure Based on Time-Delay Neural Network. KSCE Journal of Civil Engineering, 2022, 26, 2273-2294.	0.9	1
20	Interval uncertainty propagation by a parallel Bayesian global optimization method. Applied Mathematical Modelling, 2022, 108, 220-235.	2.2	15
21	Projecting interval uncertainty through the discrete Fourier transform: An application to time signals with poor precision. Mechanical Systems and Signal Processing, 2022, 172, 108920.	4.4	5
22	Editorial: Recent advances in stochastic model updating. Mechanical Systems and Signal Processing, 2022, 172, 108971.	4.4	3
23	Review of <i>Hazard-Resilient Infrastructure: Analysis and Design</i> edited by Bilal M. Ayyub American Society of Civil Engineers, Reston, VA, 2019; 2021; ISBN 9780784415757; 294 pp.; \$135.00.. Natural Hazards Review, 2022, 23, .	0.8	0
24	Distribution-free stochastic model updating of dynamic systems with parameter dependencies. Structural Safety, 2022, 97, 102227.	2.8	6
25	Distribution-free P-box processes based on translation theory: Definition and simulation. Probabilistic Engineering Mechanics, 2022, 69, 103287.	1.3	6
26	Modeling response spectrum compatible pulse-like ground motion. Mechanical Systems and Signal Processing, 2022, 177, 109177.	4.4	18
27	An effective implementation of reliability methods for Bayesian model updating of structural dynamic models with multiple uncertain parameters. Reliability Engineering and System Safety, 2022, 225, 108634.	5.1	12
28	Parallel adaptive Bayesian quadrature for rare event estimation. Reliability Engineering and System Safety, 2022, 225, 108621.	5.1	22
29	Bayesian probabilistic propagation of hybrid uncertainties: Estimation of response expectation function, its variable importance and bounds. Computers and Structures, 2022, 270, 106860.	2.4	7
30	Structural reliability analysis: A Bayesian perspective. Structural Safety, 2022, 99, 102259.	2.8	19
31	New Cycle of the ASCE Journalsâ€™ Early Career Editorial Board. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	0
32	Classical and Bayesian estimation of stress-strength reliability of a component having multiple states. International Journal of Quality and Reliability Management, 2021, 38, 528-535.	1.3	3
33	A probability-box-based method for propagation of multiple types of epistemic uncertainties and its application on composite structural-acoustic system. Mechanical Systems and Signal Processing, 2021, 149, 107184.	4.4	11
34	First-excursion stochastic incremental dynamics methodology for hysteretic structural systems subject to seismic excitation. Computers and Structures, 2021, 242, 106359.	2.4	3
35	Active learning line sampling for rare event analysis. Mechanical Systems and Signal Processing, 2021, 147, 107113.	4.4	36
36	Bayesian probabilistic propagation of imprecise probabilities with large epistemic uncertainty. Mechanical Systems and Signal Processing, 2021, 149, 107219.	4.4	20

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37	A general two-phase Markov chain Monte Carlo approach for constrained design optimization: Application to stochastic structural optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113487.	3.4	15
38	An approach to evaluation of EVD and small failure probabilities of uncertain nonlinear structures under stochastic seismic excitations. <i>Mechanical Systems and Signal Processing</i> , 2021, 152, 107468.	4.4	13
39	Harmonic wavelets based response evolutionary power spectrum determination of linear and nonlinear structural systems with singular matrices. <i>Mechanical Systems and Signal Processing</i> , 2021, 149, 107203.	4.4	25
40	A PDEM-COM framework for uncertainty quantification of backward issues involving both aleatory and epistemic uncertainties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1043, 052058.	0.3	0
41	Special Section: Nonprobabilistic and Hybrid Approaches for Uncertainty Quantification and Reliability Analysis. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2021, 7, .	0.7	1
42	Seismic collapse fragility of low-rise steel moment frames with mass irregularity based on shaking table test. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 2457-2482.	2.3	10
43	Bounds optimization of model response moments: a twin-engine Bayesian active learning method. <i>Computational Mechanics</i> , 2021, 67, 1273-1292.	2.2	10
44	Optimization or Bayesian Strategy? Performance of the Bhattacharyya Distance in Different Algorithms of Stochastic Model Updating. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2021, 7, .	0.7	3
45	Operator norm theory as an efficient tool to propagate hybrid uncertainties and calculate imprecise probabilities. <i>Mechanical Systems and Signal Processing</i> , 2021, 152, 107482.	4.4	27
46	Augmented reliability analysis for estimating imprecise first excursion probabilities in stochastic linear dynamics. <i>Advances in Engineering Software</i> , 2021, 155, 102993.	1.8	9
47	Reliability analysis of a complex system with hybrid structures and multi-level dependent life metrics. <i>Reliability Engineering and System Safety</i> , 2021, 209, 107469.	5.1	14
48	A fuzzy and random moment-based arbitrary polynomial chaos method for response analysis of composite structural acoustic system with multi-scale uncertainties. <i>Applied Acoustics</i> , 2021, 177, 107913.	1.7	5
49	Efficient imprecise reliability analysis using the Augmented Space Integral. <i>Reliability Engineering and System Safety</i> , 2021, 210, 107477.	5.1	17
50	Decoupled reliability-based optimization using Markov chain Monte Carlo in augmented space. <i>Advances in Engineering Software</i> , 2021, 157-158, 103020.	1.8	11
51	Non-probabilistic uncertainty quantification for dynamic characterization functions using complex ratio interval arithmetic operation of multidimensional parallelepiped model. <i>Mechanical Systems and Signal Processing</i> , 2021, 156, 107559.	4.4	15
52	Efficient procedure for failure probability function estimation in augmented space. <i>Structural Safety</i> , 2021, 92, 102104.	2.8	14
53	Failure probability estimation of a class of series systems by multidomain Line Sampling. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107673.	5.1	22
54	Bayesian Model Updating in Time Domain with Metamodel-Based Reliability Method. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021, 7, 04021030.	1.1	5

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55	Contaminant source identification in water distribution networks: A Bayesian framework. Mechanical Systems and Signal Processing, 2021, 159, 107834.	4.4	5
56	An efficient importance sampling approach for reliability analysis of time-variant structures subject to time-dependent stochastic load. Mechanical Systems and Signal Processing, 2021, 159, 107699.	4.4	19
57	Engineering analysis with probability boxes: A review on computational methods. Structural Safety, 2021, 93, 102092.	2.8	63
58	Time-Dependent Reliability of Aging Structures: Overview of Assessment Methods. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.1	19
59	Efficient reliability analysis of complex systems in consideration of imprecision. Reliability Engineering and System Safety, 2021, 216, 107972.	5.1	11
60	Numerically efficient computation of the survival signature for the reliability analysis of large networks. Reliability Engineering and System Safety, 2021, 216, 107935.	5.1	20
61	Estimation of Failure Probability Function under Imprecise Probabilities by Active Learning“Augmented Probabilistic Integration. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, .	1.1	13
62	Response Determination of Nonlinear Systems with Singular Matrices Subject to Combined Stochastic and Deterministic Excitations. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2021, 7, 04021049.	1.1	4
63	Method to generate artificial earthquake accelerations with time domain enhancement and attenuation characteristics. Ain Shams Engineering Journal, 2021, 13, 101606-101606.	3.5	1
64	Estimation of failure probability in braced excavation using Bayesian networks with integrated model updating. Underground Space (China), 2020, 5, 315-323.	3.4	18
65	Fragility analysis of nonproportionally damped inelastic MDOF structural systems exposed to stochastic seismic excitation. Computers and Structures, 2020, 226, 106129.	2.4	9
66	Reliability evaluation of reinforced concrete columns designed by Eurocode for wind-dominated combination considering random loads eccentricity. Advances in Structural Engineering, 2020, 23, 146-159.	1.2	5
67	Dominant failure mode analysis using representative samples obtained by multiple response surfaces method. Probabilistic Engineering Mechanics, 2020, 59, 103005.	1.3	9
68	Fuzzy failure probability estimation applying intervening variables. Structural Safety, 2020, 83, 101909.	2.8	14
69	A global sensitivity index based on Fréchet derivative and its efficient numerical analysis. Probabilistic Engineering Mechanics, 2020, 62, 103096.	1.3	8
70	Adaptive reliability analysis for rare events evaluation with global imprecise line sampling. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113344.	3.4	18
71	Barriers to development of private sector investment in water and sewage industry. Built Environment Project and Asset Management, 2020, 11, 52-70.	0.9	9
72	Bounding the first excursion probability of linear structures subjected to imprecise stochastic loading. Computers and Structures, 2020, 239, 106320.	2.4	33

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73	Bayesian Updating of Soil-Water Character Curve Parameters Based on the Monitor Data of a Large-Scale Landslide Model Experiment. Applied Sciences (Switzerland), 2020, 10, 5526.	1.3	8
74	Optimal Regulation of the Construction of Reliable Sea Defenses. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, 04020023.	1.1	0
75	Reliability and importance analysis of uncertain system with common cause failures based on survival signature. Reliability Engineering and System Safety, 2020, 201, 106988.	5.1	45
76	A unified scheme to solving arbitrary complex-valued ratio distribution with application to statistical inference for raw frequency response functions and transmissibility functions. Mechanical Systems and Signal Processing, 2020, 145, 106886.	4.4	4
77	Reduction of random variables in the Stochastic Harmonic Function representation via spectrum-relative dependent random frequencies. Mechanical Systems and Signal Processing, 2020, 141, 106718.	4.4	7
78	Non-intrusive imprecise stochastic simulation by line sampling. Structural Safety, 2020, 84, 101936.	2.8	27
79	A polynomial chaos method for arbitrary random inputs using B-splines. Probabilistic Engineering Mechanics, 2020, 60, 103051.	1.3	12
80	Adaptive experiment design for probabilistic integration. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113035.	3.4	25
81	Which Distributions (or Families of Distributions) Best Represent Interval Uncertainty: Case of Permutation-Invariant Criteria. Communications in Computer and Information Science, 2020, , 70-79.	0.4	2
82	Analysis and Estimation of Human Errors From Major Accident Investigation Reports. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, .	0.7	10
83	Resilience Decision-Making for Complex Systems. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, .	0.7	18
84	Importance measure of probabilistic common cause failures under system hybrid uncertainty based on bayesian network. Eksploatacja I Niezawodnosc, 2020, 22, 111-120.	1.1	16
85	BAYESIAN MODEL UPDATING FOR EXISTING SEISMIC-ISOLATED BRIDGES USING OBSERVED ACCELERATION RESPONSE DATA. , 2020, , .		1
86	Why Spiking Neural Networks Are Efficient: A Theorem. Communications in Computer and Information Science, 2020, , 59-69.	0.4	3
87	The role of the Bhattacharyya distance in stochastic model updating. Mechanical Systems and Signal Processing, 2019, 117, 437-452.	4.4	62
88	On the Robust Estimation of Small Failure Probabilities for Strong Nonlinear Models. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2019, 5, .	0.7	13
89	Non-stationary response statistics of nonlinear oscillators with fractional derivative elements under evolutionary stochastic excitation. Nonlinear Dynamics, 2019, 97, 2291-2303.	2.7	38
90	Structural Time-Dependent Reliability Assessment with New Power Spectral Density Function. Journal of Structural Engineering, 2019, 145, .	1.7	11

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91	Wind Speed Field Simulation via Stochastic Harmonic Function Representation Based on Wavenumberâ€“Frequency Spectrum. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	17
92	Generalization of non-intrusive imprecise stochastic simulation for mixed uncertain variables. Mechanical Systems and Signal Processing, 2019, 134, 106316.	4.4	26
93	Stochastic harmonic function based wind field simulation and wind-induced reliability of super high-rise buildings. Mechanical Systems and Signal Processing, 2019, 133, 106264.	4.4	13
94	Modal decomposition method for response spectrum based analysis of nonlinear and non-classically damped systems. Mechanical Systems and Signal Processing, 2019, 131, 469-485.	4.4	14
95	The Bhattacharyya distance: Enriching the P-box in stochastic sensitivity analysis. Mechanical Systems and Signal Processing, 2019, 129, 265-281.	4.4	31
96	Approaches to Risk Identification in Publicâ€“Private Partnership Projects: Malaysian Private Partnersâ€™ Overview. Administrative Sciences, 2019, 9, 17.	1.5	23
97	Reliability Analysis of an Axial Compressor Based on One-Dimensional Flow Modeling and Survival Signature. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2019, 5, .	0.7	4
98	Non-intrusive stochastic analysis with parameterized imprecise probability models: II. Reliability and rare events analysis. Mechanical Systems and Signal Processing, 2019, 126, 227-247.	4.4	57
99	Dynamic reliability analysis using the extended support vector regression (X-SVR). Mechanical Systems and Signal Processing, 2019, 126, 368-391.	4.4	61
100	Non-intrusive stochastic analysis with parameterized imprecise probability models: I. Performance estimation. Mechanical Systems and Signal Processing, 2019, 124, 349-368.	4.4	60
101	Development of a Relaxed Stationary Power Spectrum using Imprecise Probabilities with Application to High-rise Buildings. , 2019, , .		0
102	Sensitivity analysis of prior beliefs in advanced Bayesian networks. , 2019, , .		2
103	A Risk Based Approach to Evaluating the Impacts of Zayanderood Drought on Sustainable Development Indicators of Riverside Urban in Isfahan-Iran. Sustainability, 2019, 11, 6797.	1.6	19
104	Modeling asymmetric dependences among multivariate soil data for the geotechnical analysis â€“ The asymmetric copula approach. Soils and Foundations, 2019, 59, 1960-1979.	1.3	6
105	Computation of Hybrid Uncertainty and Dependent Failure in System Reliability Analysis and Assessment. , 2019, , .		0
106	Vibration Performance of a Flow Energy Converter behind Two Side-by-Side Cylinders. Journal of Marine Science and Engineering, 2019, 7, 435.	1.2	0
107	A multivariate interval approach for inverse uncertainty quantification with limited experimental data. Mechanical Systems and Signal Processing, 2019, 118, 534-548.	4.4	52
108	Reliability analysis with consideration of asymmetrically dependent variables: Discussion and application to geotechnical examples. Reliability Engineering and System Safety, 2019, 185, 261-277.	5.1	24

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127	Computing tight bounds of structural reliability under imprecise probabilistic information. Computers and Structures, 2018, 208, 92-104.	2.4	28
128	A polynomial expansion approach for response analysis of periodical composite structural acoustic problems with multi-scale mixed aleatory and epistemic uncertainties. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 509-531.	3.4	13
129	Efficient Reliability and Risk Analysis of Complex Interconnected Systems. , 2018, , .		0
130	Efficient Approximation of the Survival Signature for Large Networks. , 2018, , .		1
131	Forced Monte Carlo Simulation Strategy for the Design of Maintenance Plans with Multiple Inspections. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	8
132	Risk Assessment of Spent Nuclear Fuel Facilities Considering Climate Change. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	5
133	Robust vulnerability analysis of nuclear facilities subject to external hazards. Stochastic Environmental Research and Risk Assessment, 2017, 31, 2733-2756.	1.9	11
134	Fuzzy Randomness Simulation of Long-Term Infrastructure Projects. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	12
135	Learning from accidents: Interactions between human factors, technology and organisations as a central element to validate risk studies. Safety Science, 2017, 99, 196-214.	2.6	56
136	Options-based negotiation management of PPP BOT infrastructure projects. Construction Management and Economics, 2017, 35, 676-692.	1.8	19
137	Imprecise probability analysis of steel structures subject to atmospheric corrosion. Structural Safety, 2017, 67, 62-69.	2.8	16
138	Robustness of Load and Resistance Design Factors for RC Columns with Wind-Dominated Combination Considering Random Eccentricity. Journal of Structural Engineering, 2017, 143, .	1.7	5
139	Special Issue on Complex Engineered Networks: Reliability, Risk, and Uncertainty. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2017, 3, .	0.7	0
140	Learning from major accidents: Graphical representation and analysis of multi-attribute events to enhance risk communication. Safety Science, 2017, 99, 58-70.	2.6	32
141	Compressive sensing with an adaptive wavelet basis for structural system response and reliability analysis under missing data. Computers and Structures, 2017, 182, 26-40.	2.4	35
142	Meta-models for fatigue damage estimation of offshore wind turbines jacket substructures. Procedia Engineering, 2017, 199, 1158-1163.	1.2	4
143	Lifetime Deflections of Long-Span Bridges under Dynamic and Growing Traffic Loads. Journal of Bridge Engineering, 2017, 22, .	1.4	28
144	Fatigue Stress Spectra and Reliability Evaluation of Short- to Medium-Span Bridges under Stochastic and Dynamic Traffic Loads. Journal of Bridge Engineering, 2017, 22, .	1.4	22

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145	Uncertainty Quantification of Power Spectrum and Spectral Moments Estimates Subject to Missing Data. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	10
146	Sensitivity Analysis of Material and Load Parameters to Fatigue Stresses of an Offshore Wind Turbine Monopile Substructure. Procedia Engineering, 2017, 199, 1228-1233.	1.2	0
147	Multiple response surfaces method with advanced classification of samples for structural failure function fitting. Structural Safety, 2017, 64, 87-97.	2.8	12
148	Revealing prediction uncertainty in artificial neural network based reconstruction of missing data in stochastic process records utilizing extreme learning machines. , 2017, , .		0
149	How Accurate Are Expert Estimations of Correlation?. , 2017, , .		0
150	Comparison of Bayesian and interval uncertainty quantification: Application to the AIRMOD test structure. , 2017, , .		9
151	SAMPLING SCHEMES FOR HISTORY MATCHING USING SUBSET SIMULATION. , 2017, , .		2
152	EFFICIENT RELIABILITY AND UNCERTAINTY ASSESSMENT ON LIFELINE NETWORKS USING THE SURVIVAL SIGNATURE. , 2017, , .		1
153	Survival signature approach for the reliability analysis of an axial compressor. , 2017, , .		0
154	Numerically efficient reliability analysis of interdependent networks. , 2017, , .		0
155	Human factors influencing decision-making: Tendencies from first-line management decisions and implications to reduce major accidents. , 2017, , .		2
156	Interval spectral stochastic finite element analysis of structures with aggregation of random field and bounded parameters. International Journal for Numerical Methods in Engineering, 2016, 108, 1198-1229.	1.5	24
157	An approximate stochastic dynamics approach for nonlinear structural system performance-based multi-objective optimum design. Structural Safety, 2016, 60, 67-76.	2.8	22
158	Uncertainty analysis of a structuralâ€œacoustic problem using imprecise probabilities based on p-box representations. Mechanical Systems and Signal Processing, 2016, 80, 45-57.	4.4	33
159	Nuanced Robustness Analysis with Limited Information. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2016, 2, .	1.1	4
160	Compressive sensing based stochastic process power spectrum estimation subject to missing data. Probabilistic Engineering Mechanics, 2016, 44, 66-76.	1.3	51
161	Imprecise system reliability and component importance based on survival signature. Reliability Engineering and System Safety, 2016, 150, 116-125.	5.1	73
162	Learning from major accidents to improve system design. Safety Science, 2016, 84, 37-45.	2.6	69

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163	Approximate fuzzy analysis of linear structural systems applying intervening variables. Computers and Structures, 2016, 162, 116-129.	2.4	14
164	Softening Duffing Oscillator Reliability Assessment Subject to Evolutionary Stochastic Excitation. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2016, 2, .	1.1	8
165	Nonlinear MDOF system Survival Probability Determination Subject to Evolutionary Stochastic Excitation. Strojniski Vestnik/Journal of Mechanical Engineering, 2016, 62, 440-451.	0.6	8
166	Learning from accidents: Investigating the genesis of human errors in multi-attribute settings to improve the organisation of design. , 2016, , 228-236.		0
167	On quantifying the uncertainty of stochastic process power spectrum estimates subject to missing data. International Journal of Sustainable Materials and Structural Systems, 2015, 2, 185.	0.2	0
168	A Clustering Approach to a Major-Accident Data Set: Analysis of Key Interactions to Minimise Human Errors. , 2015, , .		1
169	Compressive sensing for power spectrum estimation of multi-dimensional processes under missing data. , 2015, , .		2
170	A nonlinear model of failure function for reliability analysis of RC frame columns with tension failure. Engineering Structures, 2015, 98, 74-80.	2.6	8
171	Long-term performance assessment and design of offshore structures. Computers and Structures, 2015, 154, 101-115.	2.4	62
172	Editorial: Engineering analysis with vague and imprecise information. Structural Safety, 2015, 52, 143.	2.8	14
173	Advanced Line Sampling for efficient robust reliability analysis. Structural Safety, 2015, 52, 170-182.	2.8	144
174	An artificial neural network approach for stochastic process power spectrum estimation subject to missing data. Structural Safety, 2015, 52, 150-160.	2.8	38
175	Enhanced Bayesian Network approach to sea wave overtopping hazard quantification. , 2015, , 1983-1990.		2
176	A COMPUTATIONAL TOOL FOR BAYESIAN NETWORKS ENHANCED WITH RELIABILITY METHODS. , 2015, , .		0
177	Survival signature-based sensitivity analysis of systems with epistemic uncertainties. , 2015, , 1547-1552.		0
178	Reliability assessments and remaining life of pipelines subject to combined loadings using imprecise probabilities. , 2015, , 2789-2796.		0
179	Optimal risk regulatory policy in the development of a geological disposal facility. , 2015, , 2781-2788.		0
180	Robust design of inspection schedules by means of probability boxes for structural systems prone to damage accumulation. , 2015, , 2733-2741.		0

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181	Learning from accidents: Analysis of multi-attribute events and implications to improve design and reduce human errors. , 2015, , 3049-3056.		0
182	Human factors and quality control procedures: An example from the offshore oil & gas industry. , 2015, , 3835-3841.		0
183	Uncertainty Quantification in Power Spectrum Estimation of Stochastic Processes Subject to Missing Data. , 2014, , .		0
184	Towards Efficient Ways of Estimating Failure Probability of Mechanical Structures Under Interval Uncertainty. , 2014, , .		0
185	Bayesian Network Approach for Risk Assessment of a Spent Nuclear Fuel Pond. , 2014, , .		4
186	Compressive sensing based power spectrum estimation from incomplete records by utilizing an adaptive basis. , 2014, , .		8
187	OpenCossan: An Efficient Open Tool for Dealing with Epistemic and Aleatory Uncertainties. , 2014, , .		25
188	Modified linear estimation method for generating multi-dimensional multi-variate Gaussian field in modelling material properties. Probabilistic Engineering Mechanics, 2014, 38, 42-53.	1.3	102
189	Approximation Concepts for Fuzzy Structural Analysis. , 2014, , .		3
190	Robust Design Optimization of Structural Systems Under Evolutionary Stochastic Seismic Excitation. , 2014, , .		5
191	Line Sampling for Assessing Structural Reliability with Imprecise Failure Probabilities. , 2014, , .		0
192	Interval or moments: which carry more information?. Soft Computing, 2013, 17, 1319-1327.	2.1	12
193	Verified stochastic methods. Soft Computing, 2013, 17, 1415-1423.	2.1	4
194	Structural reliability analysis on the basis of small samples: An interval quasi-Monte Carlo method. Mechanical Systems and Signal Processing, 2013, 37, 137-151.	4.4	122
195	An artificial neural network based approach for power spectrum estimation and simulation of stochastic processes subject to missing data. , 2013, , .		2
196	Reliability analysis with scarce information: Comparing alternative approaches in a geotechnical engineering context. Structural Safety, 2013, 41, 1-10.	2.8	110
197	Bayesian approach for inconsistent information. Information Sciences, 2013, 245, 96-111.	4.0	42
198	Imprecise probabilities in engineering analyses. Mechanical Systems and Signal Processing, 2013, 37, 4-29.	4.4	348

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199	Interval Analysis for System Identification of Linear MDOF Structures in the Presence of Modeling Errors. Journal of Engineering Mechanics - ASCE, 2012, 138, 1326-1338.	1.6	10
200	Fuzzy Probability in Engineering Analyses. , 2011, , .		3
201	Comparison of uncertainty models in reliability analysis of offshore structures under marine corrosion. Structural Safety, 2010, 32, 425-432.	2.8	47
202	Discrete“continuous variable structural optimization of systems under stochastic loading. Structural Safety, 2010, 32, 293-304.	2.8	13
203	Engineering quantification of inconsistent information. International Journal of Reliability and Safety, 2009, 3, 174.	0.2	13
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