

Enrico Zio

List of Publications by Year in descending order

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784
papers

25,887
citations

8172

76
h-index

17580

121
g-index

824
all docs

824
docs citations

824
times ranked

14305
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence for fault diagnosis of rotating machinery: A review. <i>Mechanical Systems and Signal Processing</i> , 2018, 108, 33-47.	4.4	1,401
2	Reliability engineering: Old problems and new challenges. <i>Reliability Engineering and System Safety</i> , 2009, 94, 125-141.	5.1	645
3	A new hybrid model for wind speed forecasting combining long short-term memory neural network, decomposition methods and grey wolf optimizer. <i>Applied Soft Computing Journal</i> , 2021, 100, 106996.	4.1	387
4	Condition-based maintenance optimization by means of genetic algorithms and Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2002, 77, 151-165.	5.1	279
5	Challenges in the vulnerability and risk analysis of critical infrastructures. <i>Reliability Engineering and System Safety</i> , 2016, 152, 137-150.	5.1	279
6	Particle filtering prognostic estimation of the remaining useful life of nonlinear components. <i>Reliability Engineering and System Safety</i> , 2011, 96, 403-409.	5.1	260
7	A data-driven fuzzy approach for predicting the remaining useful life in dynamic failure scenarios of a nuclear system. <i>Reliability Engineering and System Safety</i> , 2010, 95, 49-57.	5.1	256
8	Remaining Useful Life Prediction Based on a Double-Convolutional Neural Network Architecture. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 9521-9530.	5.2	253
9	Some considerations on the treatment of uncertainties in risk assessment for practical decision making. <i>Reliability Engineering and System Safety</i> , 2011, 96, 64-74.	5.1	246
10	The future of risk assessment. <i>Reliability Engineering and System Safety</i> , 2018, 177, 176-190.	5.1	214
11	Multiobjective optimization by genetic algorithms: application to safety systems. <i>Reliability Engineering and System Safety</i> , 2001, 72, 59-74.	5.1	210
12	An improved adaptive kriging-based importance technique for sampling multiple failure regions of low probability. <i>Reliability Engineering and System Safety</i> , 2014, 131, 109-117.	5.1	209
13	The Monte Carlo Simulation Method for System Reliability and Risk Analysis. <i>Springer Series in Reliability Engineering</i> , 2013, , .	0.3	203
14	Condition assessment for the performance degradation of bearing based on a combinatorial feature extraction method. , 2014, 27, 159-166.		191
15	Failure and reliability prediction by support vector machines regression of time series data. <i>Reliability Engineering and System Safety</i> , 2011, 96, 1527-1534.	5.1	190
16	Reinforcement learning for microgrid energy management. <i>Energy</i> , 2013, 59, 133-146.	4.5	183
17	An integrated framework of agent-based modelling and robust optimization for microgrid energy management. <i>Applied Energy</i> , 2014, 129, 70-88.	5.1	183
18	Prognostics and Health Management (PHM): Where are we and where do we (need to) go in theory and practice. <i>Reliability Engineering and System Safety</i> , 2022, 218, 108119.	5.1	179

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19	Optimizing maintenance and repair policies via a combination of genetic algorithms and Monte Carlo simulation. Reliability Engineering and System Safety, 2000, 68, 69-83.	5.1	174
20	Resilience-Based Component Importance Measures for Critical Infrastructure Network Systems. IEEE Transactions on Reliability, 2016, 65, 502-512.	3.5	168
21	Remaining useful life prediction using multi-scale deep convolutional neural network. Applied Soft Computing Journal, 2020, 89, 106113.	4.1	158
22	Some Challenges and Opportunities in Reliability Engineering. IEEE Transactions on Reliability, 2016, 65, 1769-1782.	3.5	152
23	Reliability and vulnerability analyses of critical infrastructures: Comparing two approaches in the context of power systems. Reliability Engineering and System Safety, 2013, 120, 27-38.	5.1	151
24	Simulation modelling of repairable multi-component deteriorating systems for "on condition" maintenance optimisation. Reliability Engineering and System Safety, 2002, 76, 255-264.	5.1	148
25	A model predictive control framework for reliable microgrid energy management. International Journal of Electrical Power and Energy Systems, 2014, 61, 399-409.	3.3	145
26	Network theory-based analysis of risk interactions in large engineering projects. Reliability Engineering and System Safety, 2012, 106, 1-10.	5.1	142
27	Challenges to IoT-Enabled Predictive Maintenance for Industry 4.0. IEEE Internet of Things Journal, 2020, 7, 4585-4597.	5.5	141
28	A Kalman Filter-Based Ensemble Approach With Application to Turbine Creep Prognostics. IEEE Transactions on Reliability, 2012, 61, 966-977.	3.5	138
29	Two methods for the structured assessment of model uncertainty by experts in performance assessments of radioactive waste repositories. Reliability Engineering and System Safety, 1996, 54, 225-241.	5.1	136
30	A modeling and simulation framework for the reliability/availability assessment of a power transmission grid subject to cascading failures under extreme weather conditions. Applied Energy, 2017, 185, 267-279.	5.1	131
31	Concerns, Challenges, and Directions of Development for the Issue of Representing Uncertainty in Risk Assessment. Risk Analysis, 2014, 34, 1196-1207.	1.5	130
32	Foundational Issues in Risk Assessment and Risk Management. Risk Analysis, 2014, 34, 1164-1172.	1.5	129
33	Combining Relevance Vector Machines and exponential regression for bearing residual life estimation. Mechanical Systems and Signal Processing, 2012, 31, 405-427.	4.4	128
34	A reinforcement learning framework for optimal operation and maintenance of power grids. Applied Energy, 2019, 241, 291-301.	5.1	128
35	A multi-state model for the reliability assessment of a distributed generation system via universal generating function. Reliability Engineering and System Safety, 2012, 106, 28-36.	5.1	126
36	Modeling dependent competing failure processes with degradation-shock dependence. Reliability Engineering and System Safety, 2017, 165, 422-430.	5.1	126

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37	Two Machine Learning Approaches for Short-Term Wind Speed Time-Series Prediction. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1734-1747.	7.2	124
38	Modeling Interdependent Network Systems for Identifying Cascade-Safe Operating Margins. IEEE Transactions on Reliability, 2011, 60, 94-101.	3.5	123
39	An integrated systemic method for supply reliability assessment of natural gas pipeline networks. Applied Energy, 2018, 209, 489-501.	5.1	118
40	Investigation of uncertainty treatment capability of model-based and data-driven prognostic methods using simulated data. Reliability Engineering and System Safety, 2013, 112, 94-108.	5.1	111
41	A dynamic particle filter-support vector regression method for reliability prediction. Reliability Engineering and System Safety, 2013, 119, 109-116.	5.1	110
42	Optimal Design of Reliable Network Systems in Presence of Uncertainty. IEEE Transactions on Reliability, 2005, 54, 243-253.	3.5	108
43	Generalised importance measures for multi-state elements based on performance level restrictions. Reliability Engineering and System Safety, 2003, 82, 287-298.	5.1	107
44	The role of network theory and object-oriented modeling within a framework for the vulnerability analysis of critical infrastructures. Reliability Engineering and System Safety, 2009, 94, 954-963.	5.1	107
45	Risk-informed optimisation of railway tracks inspection and maintenance procedures. Reliability Engineering and System Safety, 2006, 91, 20-35.	5.1	106
46	Monte Carlo-based filtering for fatigue crack growth estimation. Probabilistic Engineering Mechanics, 2009, 24, 367-373.	1.3	105
47	A Combined Monte Carlo and Possibilistic Approach to Uncertainty Propagation in Event Tree Analysis. Risk Analysis, 2008, 28, 1309-1326.	1.5	104
48	Multiobjective spare part allocation by means of genetic algorithms and Monte Carlo simulation. Reliability Engineering and System Safety, 2005, 87, 325-335.	5.1	103
49	Network reliability analysis based on percolation theory. Reliability Engineering and System Safety, 2015, 142, 556-562.	5.1	103
50	Analysis of robust optimization for decentralized microgrid energy management under uncertainty. International Journal of Electrical Power and Energy Systems, 2015, 64, 815-832.	3.3	103
51	A Monte Carlo methodological approach to plant availability modeling with maintenance, aging and obsolescence. Reliability Engineering and System Safety, 2000, 67, 61-73.	5.1	102
52	Evaluating maintenance policies by quantitative modeling and analysis. Reliability Engineering and System Safety, 2013, 109, 53-65.	5.1	102
53	Comparing the treatment of uncertainty in Bayesian networks and fuzzy expert systems used for a human reliability analysis application. Reliability Engineering and System Safety, 2015, 138, 176-193.	5.1	102
54	Monte Carlo simulation-based probabilistic assessment of DG penetration in medium voltage distribution networks. International Journal of Electrical Power and Energy Systems, 2015, 64, 852-860.	3.3	102

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55	An adaptive method for health trend prediction of rotating bearings. , 2014, 35, 117-123.		100
56	Measuring reliability under epistemic uncertainty: Review on non-probabilistic reliability metrics. Chinese Journal of Aeronautics, 2016, 29, 571-579.	2.8	98
57	The evolution of system reliability optimization. Reliability Engineering and System Safety, 2019, 192, 106259.	5.1	97
58	Towards a probabilistic model for predicting ship besetting in ice in Arctic waters. Reliability Engineering and System Safety, 2016, 155, 124-136.	5.1	96
59	Hierarchical k-nearest neighbours classification and binary differential evolution for fault diagnostics of automotive bearings operating under variable conditions. Engineering Applications of Artificial Intelligence, 2016, 56, 1-13.	4.3	96
60	A SVM framework for fault detection of the braking system in a high speed train. Mechanical Systems and Signal Processing, 2017, 87, 401-409.	4.4	96
61	Seismic fragility analysis with artificial neural networks: Application to nuclear power plant equipment. Engineering Structures, 2018, 162, 213-225.	2.6	96
62	An adaptive robust framework for the optimization of the resilience of interdependent infrastructures under natural hazards. European Journal of Operational Research, 2019, 276, 1119-1136.	3.5	96
63	Predicting component reliability and level of degradation with complex-valued neural networks. Reliability Engineering and System Safety, 2014, 121, 198-206.	5.1	92
64	Uncertainty analysis of the adequacy assessment model of a distributed generation system. Renewable Energy, 2012, 41, 235-244.	4.3	90
65	A particle filtering and kernel smoothing-based approach for new design component prognostics. Reliability Engineering and System Safety, 2015, 134, 19-31.	5.1	89
66	Integrating Random Shocks Into Multi-State Physics Models of Degradation Processes for Component Reliability Assessment. IEEE Transactions on Reliability, 2015, 64, 154-166.	3.5	88
67	Prognostics and health management: A review from the perspectives of design, development and decision. Reliability Engineering and System Safety, 2022, 217, 108063.	5.1	87
68	Model-based and data-driven prognostics under different available information. Probabilistic Engineering Mechanics, 2013, 32, 66-79.	1.3	86
69	Smart electricity meter reliability prediction based on accelerated degradation testing and modeling. International Journal of Electrical Power and Energy Systems, 2014, 56, 209-219.	3.3	86
70	Monte Carlo approach to PSA for dynamic process systems. Reliability Engineering and System Safety, 1996, 52, 227-241.	5.1	85
71	A study of the bootstrap method for estimating the accuracy of artificial neural networks in predicting nuclear transient processes. IEEE Transactions on Nuclear Science, 2006, 53, 1460-1478.	1.2	85
72	A penalty guided stochastic fractal search approach for system reliability optimization. Reliability Engineering and System Safety, 2016, 152, 213-227.	5.1	85

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73	Differential evolution-based multi-objective optimization for the definition of a health indicator for fault diagnostics and prognostics. <i>Mechanical Systems and Signal Processing</i> , 2018, 102, 382-400.	4.4	84
74	Monte Carlo simulation analysis of the effects of different system performance levels on the importance of multi-state components. <i>Reliability Engineering and System Safety</i> , 2003, 82, 63-73.	5.1	83
75	A Memetic Evolutionary Multi-Objective Optimization Method for Environmental Power Unit Commitment. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 2660-2669.	4.6	83
76	A fuzzy set-based approach for modeling dependence among human errors. <i>Fuzzy Sets and Systems</i> , 2009, 160, 1947-1964.	1.6	81
77	Genetic algorithms and Monte Carlo simulation for optimal plant design. <i>Reliability Engineering and System Safety</i> , 2000, 68, 29-38.	5.1	79
78	Ensemble of optimized echo state networks for remaining useful life prediction. <i>Neurocomputing</i> , 2018, 281, 121-138.	3.5	79
79	A clustering procedure for reducing the number of representative solutions in the Pareto Front of multiobjective optimization problems. <i>European Journal of Operational Research</i> , 2011, 210, 624-634.	3.5	78
80	Ensemble neural network-based particle filtering for prognostics. <i>Mechanical Systems and Signal Processing</i> , 2013, 41, 288-300.	4.4	78
81	Uncertainty treatment in risk analysis of complex systems: The cases of STAMP and FRAM. <i>Reliability Engineering and System Safety</i> , 2016, 156, 203-209.	5.1	78
82	A systematic framework of vulnerability analysis of a natural gas pipeline network. <i>Reliability Engineering and System Safety</i> , 2018, 175, 79-91.	5.1	78
83	Uncertainties in smart grids behavior and modeling: What are the risks and vulnerabilities? How to analyze them?. <i>Energy Policy</i> , 2011, 39, 6308-6320.	4.2	76
84	A Monte Carlo simulation approach to the availability assessment of multi-state systems with operational dependencies. <i>Reliability Engineering and System Safety</i> , 2007, 92, 871-882.	5.1	75
85	Risk assessment and risk-cost optimization of distributed power generation systems considering extreme weather conditions. <i>Reliability Engineering and System Safety</i> , 2015, 136, 47-61.	5.1	75
86	Particle Filter-Based Prognostics for an Electrolytic Capacitor Working in Variable Operating Conditions. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 1567-1575.	5.4	75
87	Estimation of the functional failure probability of a thermal-hydraulic passive system by Subset Simulation. <i>Nuclear Engineering and Design</i> , 2009, 239, 580-599.	0.8	74
88	Probability and Possibility-Based Representations of Uncertainty in Fault Tree Analysis. <i>Risk Analysis</i> , 2013, 33, 121-133.	1.5	74
89	Polynomial chaos expansion for global sensitivity analysis applied to a model of radionuclide migration in a randomly heterogeneous aquifer. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013, 27, 945-954.	1.9	74
90	A support vector machine integrated system for the classification of operation anomalies in nuclear components and systems. <i>Reliability Engineering and System Safety</i> , 2007, 92, 593-600.	5.1	71

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91	Reliability assessment of multi-state phased mission system with non-repairable multi-state components. <i>Applied Mathematical Modelling</i> , 2018, 61, 181-199.	2.2	71
92	A long-term prediction approach based on long short-term memory neural networks with automatic parameter optimization by Tree-structured Parzen Estimator and applied to time-series data of NPP steam generators. <i>Applied Soft Computing Journal</i> , 2020, 89, 106116.	4.1	71
93	Remaining useful life prediction for Lithium-ion batteries using fractional Brownian motion and Fruit-fly Optimization Algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 161, 107904.	2.5	70
94	Basics of genetic algorithms optimization for RAMS applications. <i>Reliability Engineering and System Safety</i> , 2006, 91, 977-991.	5.1	69
95	A risk-based simulation and multi-objective optimization framework for the integration of distributed renewable generation and storage. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 778-793.	8.2	69
96	A concept paper on dynamic reliability via Monte Carlo simulation. <i>Mathematics and Computers in Simulation</i> , 1998, 47, 371-382.	2.4	68
97	Bayesian Network Modelling for the Wind Energy Industry: An Overview. <i>Reliability Engineering and System Safety</i> , 2020, 202, 107053.	5.1	68
98	Fatigue crack growth estimation by relevance vector machine. <i>Expert Systems With Applications</i> , 2012, 39, 10681-10692.	4.4	67
99	Nuclear power plant components condition monitoring by probabilistic support vector machine. <i>Annals of Nuclear Energy</i> , 2013, 56, 23-33.	0.9	66
100	A resilience perspective on water transport systems: The case of Eastern Star. <i>International Journal of Disaster Risk Reduction</i> , 2019, 33, 343-354.	1.8	66
101	Human Reliability Analysis by Fuzzy "CREAM". <i>Risk Analysis</i> , 2007, 27, 137-154.	1.5	65
102	Model-based Monte Carlo state estimation for condition-based component replacement. <i>Reliability Engineering and System Safety</i> , 2009, 94, 752-758.	5.1	65
103	An Interval-Valued Neural Network Approach for Uncertainty Quantification in Short-Term Wind Speed Prediction. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 2787-2800.	7.2	65
104	Risk Assessment of an Electrical Power System Considering the Influence of Traffic Congestion on a Hypothetical Scenario of Electrified Transportation System in New York State. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 142-155.	4.7	65
105	A data-driven approach for predicting failure scenarios in nuclear systems. <i>Annals of Nuclear Energy</i> , 2010, 37, 482-491.	0.9	64
106	An integrated framework for operational flexibility assessment in multi-period power system planning with renewable energy production. <i>Applied Energy</i> , 2018, 222, 898-914.	5.1	64
107	Randomized flow model and centrality measure for electrical power transmission network analysis. <i>Reliability Engineering and System Safety</i> , 2010, 95, 379-385.	5.1	63
108	Integrated deterministic and probabilistic safety assessment: Concepts, challenges, research directions. <i>Nuclear Engineering and Design</i> , 2014, 280, 413-419.	0.8	63

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109	Fault tolerant predictive control design for reliable microgrid energy management under uncertainties. <i>Energy</i> , 2015, 91, 20-34.	4.5	63
110	Analysis of the Results of Accelerated Aging Tests in Insulated Gate Bipolar Transistors. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 7953-7962.	5.4	63
111	Computational Methods for Reliability and Risk Analysis. <i>Series on Quality, Reliability and Engineering Statistics</i> , 2009, , .	0.2	63
112	A particle swarm-optimized support vector machine for reliability prediction. <i>Quality and Reliability Engineering International</i> , 2012, 28, 141-158.	1.4	62
113	Optimal Reliability/Availability of Uncertain Systems via Multi-Objective Genetic Algorithms. <i>IEEE Transactions on Reliability</i> , 2004, 53, 424-434.	3.5	61
114	Component Criticality in Failure Cascade Processes of Network Systems. <i>Risk Analysis</i> , 2011, 31, 1196-1210.	1.5	61
115	Importance measures-based prioritization for improving the performance of multi-state systems: application to the railway industry. <i>Reliability Engineering and System Safety</i> , 2007, 92, 1303-1314.	5.1	60
116	Using Expert Models in Human Reliability Analysis-A Dependence Assessment Method Based on Fuzzy Logic. <i>Risk Analysis</i> , 2010, 30, 1277-1297.	1.5	59
117	Vulnerability of Smart Grids With Variable Generation and Consumption: A System of Systems Perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013, 43, 477-487.	5.9	59
118	Electrical and topological drivers of the cascading failure dynamics in power transmission networks. <i>Reliability Engineering and System Safety</i> , 2018, 175, 196-206.	5.1	59
119	Fault Detection in Nuclear Power Plants Components by a Combination of Statistical Methods. <i>IEEE Transactions on Reliability</i> , 2013, 62, 833-845.	3.5	57
120	Random Fuzzy Extension of the Universal Generating Function Approach for the Reliability Assessment of Multi-State Systems Under Aleatory and Epistemic Uncertainties. <i>IEEE Transactions on Reliability</i> , 2014, 63, 13-25.	3.5	57
121	A Novel Dynamic-Weighted Probabilistic Support Vector Regression-Based Ensemble for Prognostics of Time Series Data. <i>IEEE Transactions on Reliability</i> , 2015, 64, 1203-1213.	3.5	57
122	A power-flow emulator approach for resilience assessment of repairable power grids subject to weather-induced failures and data deficiency. <i>Applied Energy</i> , 2018, 210, 339-350.	5.1	57
123	A modeling and optimization framework for power systems design with operational flexibility and resilience against extreme heat waves and drought events. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 706-719.	8.2	57
124	Estimation of the importance measures of multi-state elements by Monte Carlo simulation. <i>Reliability Engineering and System Safety</i> , 2004, 86, 191-204.	5.1	56
125	Genetic algorithm-based wrapper approach for grouping condition monitoring signals of nuclear power plant components. <i>Integrated Computer-Aided Engineering</i> , 2011, 18, 221-234.	2.5	56
126	Framework for the quantitative assessment of the risk of leakage from LNG-fueled vessels by an event tree-CFD. <i>Journal of Loss Prevention in the Process Industries</i> , 2016, 43, 42-52.	1.7	56

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127	Assessment of the availability of an offshore installation by Monte Carlo simulation. International Journal of Pressure Vessels and Piping, 2006, 83, 312-320.	1.2	55
128	Analyzing the topological, electrical and reliability characteristics of a power transmission system for identifying its critical elements. Reliability Engineering and System Safety, 2012, 101, 67-74.	5.1	55
129	Industrial disasters: Extreme events, extremely rare. Some reflections on the treatment of uncertainties in the assessment of the associated risks. Chemical Engineering Research and Design, 2013, 91, 31-45.	2.7	55
130	Availability-based simulation and optimization modeling framework for open-pit mine truck allocation under dynamic constraints. International Journal of Mining Science and Technology, 2013, 23, 113-119.	4.6	55
131	A novel support vector regression method for online reliability prediction under multi-state varying operating conditions. Reliability Engineering and System Safety, 2018, 177, 35-49.	5.1	55
132	An ensemble of models for integrating dependent sources of information for the prognosis of the remaining useful life of Proton Exchange Membrane Fuel Cells. Mechanical Systems and Signal Processing, 2019, 124, 479-501.	4.4	55
133	Ensemble empirical mode decomposition and long short-term memory neural network for multi-step predictions of time series signals in nuclear power plants. Applied Energy, 2021, 283, 116346.	5.1	55
134	Quantitative developments in the cognitive reliability and error analysis method (CREAM) for the assessment of human performance. Annals of Nuclear Energy, 2006, 33, 894-910.	0.9	54
135	Uncertainty theory as a basis for belief reliability. Information Sciences, 2018, 429, 26-36.	4.0	54
136	Monte Carlo simulation-based sensitivity analysis of the model of a thermal-hydraulic passive system. Reliability Engineering and System Safety, 2012, 107, 90-106.	5.1	53
137	Non-dominated sorting binary differential evolution for the multi-objective optimization of cascading failures protection in complex networks. Reliability Engineering and System Safety, 2013, 111, 195-205.	5.1	53
138	A Novel Concept Drift Detection Method for Incremental Learning in Nonstationary Environments. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 309-320.	7.2	53
139	System reliability-redundancy optimization with cold-standby strategy by an enhanced nest cuckoo optimization algorithm. Reliability Engineering and System Safety, 2020, 201, 106973.	5.1	53
140	An Integrated Framework for Risk Response Planning Under Resource Constraints in Large Engineering Projects. IEEE Transactions on Engineering Management, 2013, 60, 627-639.	2.4	52
141	Remaining useful life estimation in heterogeneous fleets working under variable operating conditions. Reliability Engineering and System Safety, 2016, 156, 109-124.	5.1	52
142	Online Performance Assessment Method for a Model-Based Prognostic Approach. IEEE Transactions on Reliability, 2016, 65, 718-735.	3.5	52
143	Dynamic Risk Assessment Based on Statistical Failure Data and Condition-Monitoring Degradation Data. IEEE Transactions on Reliability, 2018, 67, 609-622.	3.5	52
144	An integrated imputation-prediction scheme for prognostics of battery data with missing observations. Expert Systems With Applications, 2019, 115, 709-723.	4.4	52

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145	Fractional ARIMA with an improved cuckoo search optimization for the efficient Short-term power load forecasting. AEJ - Alexandria Engineering Journal, 2020, 59, 3111-3118.	3.4	52
146	A neuro-fuzzy technique for fault diagnosis and its application to rotating machinery. Reliability Engineering and System Safety, 2009, 94, 78-88.	5.1	51
147	NSGA-II-trained neural network approach to the estimation of prediction intervals of scale deposition rate in oil & gas equipment. Expert Systems With Applications, 2013, 40, 1205-1212.	4.4	51
148	The analytic hierarchy process as a systematic approach to the identification of important parameters for the reliability assessment of passive systems. Nuclear Engineering and Design, 2003, 226, 311-336.	0.8	50
149	Genetic algorithms for condition-based maintenance optimization under uncertainty. European Journal of Operational Research, 2015, 244, 611-623.	3.5	50
150	Identification of nuclear transients via optimized fuzzy clustering. Annals of Nuclear Energy, 2005, 32, 1068-1080.	0.9	49
151	From complexity science to reliability efficiency: a new way of looking at complex network systems and critical infrastructures. International Journal of Critical Infrastructures, 2007, 3, 488.	0.1	49
152	A quantitative approach for risk assessment of a ship stuck in ice in Arctic waters. Safety Science, 2018, 107, 145-154.	2.6	49
153	Selecting features for nuclear transients classification by means of genetic algorithms. IEEE Transactions on Nuclear Science, 2006, 53, 1479-1493.	1.2	48
154	Optimal expansion of an existing electrical power transmission network by multi-objective genetic algorithms. Reliability Engineering and System Safety, 2010, 95, 173-181.	5.1	48
155	A stochastic framework for uncertainty analysis in electric power transmission systems with wind generation. Renewable Energy, 2014, 64, 71-81.	4.3	48
156	Bootstrapped Artificial Neural Networks for the seismic analysis of structural systems. Structural Safety, 2017, 67, 70-84.	2.8	48
157	Reliability assessment of phased-mission systems under random shocks. Reliability Engineering and System Safety, 2018, 180, 352-361.	5.1	48
158	Accounting for components interactions in the differential importance measure. Reliability Engineering and System Safety, 2006, 91, 1163-1174.	5.1	47
159	A generalized cauchy method for remaining useful life prediction of wind turbine gearboxes. Mechanical Systems and Signal Processing, 2021, 153, 107471.	4.4	47
160	Nonlinear Monte Carlo reliability analysis with biasing towards top event. Reliability Engineering and System Safety, 1993, 40, 31-42.	5.1	46
161	Solving the inverse problem of parameter estimation by genetic algorithms: the case of a groundwater contaminant transport model. Annals of Nuclear Energy, 2002, 29, 967-981.	0.9	46
162	Quantifying uncertainties in the estimation of safety parameters by using bootstrapped artificial neural networks. Annals of Nuclear Energy, 2008, 35, 2338-2350.	0.9	46

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163	System reliability prediction by support vector regression with analytic selection and genetic algorithm parameters selection. <i>Applied Soft Computing Journal</i> , 2015, 30, 792-802.	4.1	46
164	On the use of the analytic hierarchy process in the aggregation of expert judgments. <i>Reliability Engineering and System Safety</i> , 1996, 53, 127-138.	5.1	45
165	A combination of Monte Carlo simulation and cellular automata for computing the availability of complex network systems. <i>Reliability Engineering and System Safety</i> , 2006, 91, 181-190.	5.1	45
166	Processing dynamic scenarios from a reliability analysis of a nuclear power plant digital instrumentation and control system. <i>Annals of Nuclear Energy</i> , 2009, 36, 1386-1399.	0.9	45
167	Identifying groups of critical edges in a realistic electrical network by multi-objective genetic algorithms. <i>Reliability Engineering and System Safety</i> , 2012, 99, 172-177.	5.1	45
168	Optimization of Cascade Resilient Electrical Infrastructures and its Validation by Power Flow Modeling. <i>Risk Analysis</i> , 2015, 35, 594-607.	1.5	45
169	Long-range dependence and heavy tail characteristics for remaining useful life prediction in rolling bearing degradation. <i>Applied Mathematical Modelling</i> , 2022, 102, 268-284.	2.2	45
170	Identification and classification of dynamic event tree scenarios via possibilistic clustering: Application to a steam generator tube rupture event. <i>Accident Analysis and Prevention</i> , 2009, 41, 1180-1191.	3.0	44
171	An optimized Line Sampling method for the estimation of the failure probability of nuclear passive systems. <i>Reliability Engineering and System Safety</i> , 2010, 95, 1300-1313.	5.1	44
172	Comparison of Data-Driven Reconstruction Methods For Fault Detection. <i>IEEE Transactions on Reliability</i> , 2015, 64, 852-860.	3.5	44
173	Probabilistic-based combined high and low cycle fatigue assessment for turbine blades using a substructure-based kriging surrogate model. <i>Aerospace Science and Technology</i> , 2020, 104, 105957.	2.5	44
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