Enrico Zio

List of Publications by Year
in descending order

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784 papers	25,887 citations	8159 76 h-index	17546 121 g-index
824 all docs	824 docs citations	824 times ranked	14305 citing authors

#	Article	IF	Citations
1	An optimization model for planning testing and control strategies to limit the spread of a pandemic â€“ The case of COVID-19. European Journal of Operational Research, 2023, 304, 308-324.	3.5	17
2	An Angle-Based Bi-Objective Optimization Algorithm for Redundancy Allocation in Presence of Interval Uncertainty. IEEE Transactions on Automation Science and Engineering, 2023, 20, 271-284.	3.4	7
3	Social Robotics and Synthetic Ethics: A Methodological Proposal for Research. International Journal of Social Robotics, 2023, 15, 2075-2085.	3.1	0
4	Hybrid Discrete Differential Evolution and Deep Q-Network for Multimission Selective Maintenance. IEEE Transactions on Reliability, 2022, 71, 1501-1512.	3.5	10
5	Metabolism and difference iterative forecasting model based on long-range dependent and grey for gearbox reliability. ISA Transactions, 2022, 122, 486-500.	3.1	4
6	Resilience assessment of electrified road networks subject to charging station failures. Computer-Aided Civil and Infrastructure Engineering, 2022, 37, 300-316.	6.3	18
7	Fractional LÃ©vy stable motion with LRD for RUL and reliability analysis of li-ion battery. ISA Transactions, 2022, 125, 360-370.	3.1	13
8	Remaining useful life prediction for complex systems considering varying future operational conditions. Quality and Reliability Engineering International, 2022, 38, 516-531.	1.4	5
9	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
10	Development of an integrated dynamic model for supply security and resilience analysis of natural gas pipeline network systems. Petroleum Science, 2022, 19, 761-773.	2.4	11
11	A Bayesian Belief Network Model for the Risk Assessment and Management of Premature Screen-Out during Hydraulic Fracturing. Reliability Engineering and System Safety, 2022, 218, 108094.	5.1	8
12	An iterative model of the generalized Cauchy process for predicting the remaining useful life of lithium-ion batteries. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110269.	2.5	23
13	Optimizing generation expansion planning with operational uncertainty: A multistage adaptive robust approach. Applied Energy, 2022, 306, 118032.	5.1	25
14	Long-range dependence and heavy tail characteristics for remaining useful life prediction in rolling bearing degradation. Applied Mathematical Modelling, 2022, 102, 268-284.	2.2	45
15	Prognostics and Health Management (PHM): Where are we and where do we (need to) go in theory and practice. Reliability Engineering and System Safety, 2022, 218, 108119.	5.1	179
16	Optimization of the Operation and Maintenance of renewable energy systems by Deep Reinforcement Learning. Renewable Energy, 2022, 183, 752-763.	4.3	35
17	Robust state-of-charge estimation of Li-ion batteries based on multichannel convolutional and bidirectional recurrent neural networks. Applied Soft Computing Journal, 2022, 116, 108401.	4.1	22
18	A deep reinforcement learning-based method for predictive management of demand response in natural gas pipeline networks. Journal of Cleaner Production, 2022, 335, 130274.	4.6	11

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19	Multi-objective availability and cost optimization by PSO and COA for series-parallel systems with subsystems failure dependencies. Microprocessors and Microsystems, 2022, 89, 104422.	1.8	4
20	A method for fault detection in multi-component systems based on sparse autoencoder-based deep neural networks. Reliability Engineering and System Safety, 2022, 220, 108278.	5.1	25
21	A reliability-centered methodology for identifying renovation actions for improving resilience against heat waves in power distribution grids. International Journal of Electrical Power and Energy Systems, 2022, 137, 107813.	3.3	9
22	A Modeling and Analysis Framework for Integrated Energy Systems Exposed to Climate Change-Induced NaTech Accidental Scenarios. Sustainability, 2022, 14, 786.	1.6	7
23	A new preventive maintenance strategy optimization model considering lifecycle safety. Reliability Engineering and System Safety, 2022, 221, 108325.	5.1	13
24	A Niching Augmented Evolutionary Algorithm for the Identification of Functional Dependencies in Complex Technical Infrastructures From Alarm Data. IEEE Systems Journal, 2022, , 1-10.	2.9	2
25	A Simulation-Based Framework for the Adequacy Assessment of Integrated Energy Systems Exposed to Climate Change. , 2022, , 1-35.		3
26	A Fault Diagnosis Approach for Electromechanical Actuators with Simulating Model under Small Experimental Data Sample Condition. Actuators, 2022, 11, 66.	1.2	5
27	A general model for life-cycle cost analysis of Condition-Based Maintenance enabled by PHM capabilities. Reliability Engineering and System Safety, 2022, 224, 108499.	5.1	12
28	Parallel density scanned adaptive Kriging to improve local tsunami hazard assessment for coastal infrastructures. Reliability Engineering and System Safety, 2022, 222, 108441.	5.1	2
29	Resilience-oriented optimal post-disruption reconfiguration for coupled traffic-power systems. Reliability Engineering and System Safety, 2022, 222, 108408.	5.1	41
30	A method for economic evaluation of predictive maintenance technologies by integrating system dynamics and evolutionary game modelling. Reliability Engineering and System Safety, 2022, 222, 108424.	5.1	21
31	A clustering-based framework for searching vulnerabilities in the operation dynamics of Cyber-Physical Energy Systems. Reliability Engineering and System Safety, 2022, 222, 108400.	5.1	5
32	Passive safety systems analysis: A novel approach for inverse uncertainty quantification based on Stacked Sparse Autoencoders and Kriging metamodeling. Progress in Nuclear Energy, 2022, 148, 104209.	1.3	3
33	Data-Driven Optimal Test Selection Design for Fault Detection and Isolation Based on CCVKL Method and PSO. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	8
34	Online Bearing Fault Diagnosis Based on Packet Loss Influence-Inspired Retransmission Mechanism. Mathematics, 2022, 10, 1422.	1.1	2
35	Machine learning-based models to prioritize scenarios in a Quantitative Risk Analysis: An application to an actual atmospheric distillation unit. Journal of Loss Prevention in the Process Industries, 2022, 77, 104797.	1.7	2
36	A systematic method for the optimization of gas supply reliability in natural gas pipeline network based on Bayesian networks and deep reinforcement learning. Reliability Engineering and System Safety, 2022, 225, 108613.	5.1	32

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37	A Novel Metric to Evaluate the Association Rules for Identification of Functional Dependencies in Complex Technical Infrastructures. Environment Systems and Decisions, 2022, 42, 436-449.	1.9	3
38	The Contribution of Small Modular Reactors to the Resilience of Power Supply. Journal of Nuclear Engineering, 2022, 3, 152-162.	0.7	6
39	Guest Editorial: special issue of ESREL2020 PSAM15. Environment Systems and Decisions, 2022, 42, 147-148.	1.9	0
40	MatÃ©rn process-based simulation of wind speed time series. Energy Conversion and Management, 2022, 266, 115596.	4.4	2
41	Multifractional and long-range dependent characteristics for remaining useful life prediction of cracking gas compressor. Reliability Engineering and System Safety, 2022, 225, 108630.	5.1	9
42	A framework for predicting the remaining useful life of machinery working under time-varying operational conditions. Applied Soft Computing Journal, 2022, 126, 109164.	4.1	8
43	A heuristic features selection approach for scenario analysis in a regional seismic probabilistic tsunami hazard assessment. International Journal of Disaster Risk Reduction, 2022, 78, 103112.	1.8	2
44	A Novel Nonlinear Dynamic Model for Predicting Contact Bounce of Electromagnetic Relays With Flexible Spring Components. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 1318-1328.	1.4	3
45	A Two-Stage Stochastic Unit Commitment Model for Wind-integrated Power Systems Flexibility Assessment. , 2022, , .		0
46	Guest Editorial: Special Section on AI Enhanced Reliability Assessment and Predictive Health Management. IEEE Transactions on Industrial Informatics, 2022, 18, 7196-7197.	7.2	0
47	A dynamic event tree for a blowout accident in an oil deep-water well equipped with a managed pressure drilling condition monitoring and operation system. Journal of Loss Prevention in the Process Industries, 2022, 79, 104834.	1.7	3
48	Time space modelling for fault diagnosis and prognosis with uncertainty management: A general theoretical formulation. Reliability Engineering and System Safety, 2022, 226, 108686.	5.1	6
49	A Two-Stage Stochastic Programming Model of Component Test Plan and Redundancy Allocation for System Reliability Optimization. IEEE Transactions on Reliability, 2021, 70, 99-109.	3.5	14
50	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. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 142-155.	4.7	65
51	Resilient Critical Infrastructure Planning Under Disruptions Considering Recovery Scheduling. IEEE Transactions on Engineering Management, 2021, 68, 452-466.	2.4	20
52	An integrated risk index accounting for epistemic uncertainty in probability risk assessment. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 711-728.	0.6	1
53	A failure mechanism consistency test method for accelerated degradation test. Quality and Reliability Engineering International, 2021, 37, 464-483.	1.4	7
54	Globalization and global risk: How risk analysis needs to be enhanced to be effective in confronting current threats. Reliability Engineering and System Safety, 2021, 205, 107270.	5.1	29

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55	Association rules extraction for the identification of functional dependencies in complex technical infrastructures. Reliability Engineering and System Safety, 2021, 209, 107305.	5.1	8
56	A new hybrid model for wind speed forecasting combining long short-term memory neural network, decomposition methods and grey wolf optimizer. Applied Soft Computing Journal, 2021, 100, 106996.	4.1	387
57	A generalized cauchy method for remaining useful life prediction of wind turbine gearboxes. Mechanical Systems and Signal Processing, 2021, 153, 107471.	4.4	47
58	Joint Distribution-Based Test Selection for Fault Detection and Isolation Under Multiple Faults Condition. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	4
59	A method for fault diagnosis in evolving environment using unlabeled data. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 33-49.	0.6	2
60	Radiation-Induced Degradation Analysis and Reliability Modeling of COTS ADCs for Space-Borne Miniature Fiber-Optic Gyroscopes. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	2.4	10
61	The risk of the electrical power grid due to natural hazards and recovery challenge following disasters and record floods: What next?. , 2021, , 215-238.		2
62	Generalized Cauchy difference iterative forecasting model for wind speed based on fractal time series. Nonlinear Dynamics, 2021, 103, 759-773.	2.7	19
63	An MEWMA-based segmental multivariate hidden Markov model for degradation assessment and prediction. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 831-844.	0.6	4
64	Online Estimation of Degradation State Under Random Change of Mode. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	1
65	Optimal sensor positioning on pressurized equipment based on Value of Information. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 533-544.	0.6	1
66	A Fractional Brownian Motion Model for Forecasting Lost Load and Time Interval Between Power Outages. IEEE Access, 2021, 9, 6623-6632.	2.6	1
67	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
68	A data-driven approach to anomaly detection and vulnerability dynamic analysis for large-scale integrated energy systems. Energy Conversion and Management, 2021, 234, 113926.	4.4	15
69	Fault Diagnosis and Reconfigurable Control for Commercial Aircraft with Multiple Faults and Actuator Saturation. Aerospace, 2021, 8, 108.	1.1	5
70	A physics-informed machine learning framework for predictive maintenance applied to turbomachinery assets. Journal of the Global Power and Propulsion Society, 2021, , 1-15.	0.8	8
71	A novel association rule mining method for the identification of rare functional dependencies in Complex Technical Infrastructures from alarm data. Expert Systems With Applications, 2021, 170, 114560.	4.4	11
72	A Simulation-Based Multi-Objective Optimization Framework for the Production Planning in Energy Supply Chains. Energies, 2021, 14, 2684.	1.6	1

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73	Identification of LOFA precursors in ITER superconducting magnet cryogenic cooling circuit. Reliability Engineering and System Safety, 2021, 209, 107426.	5.1	3
74	Optimal Prognostics and Health Management-driven inspection and maintenance strategies for industrial systems. Reliability Engineering and System Safety, 2021, 210, 107536.	5.1	27
75	Bootstrapped Ensemble of Artificial Neural Networks Technique for Quantifying Uncertainty in Prediction of Wind Energy Production. Sustainability, 2021, 13, 6417.	1.6	5
76	Resilience Assessment and Importance Measure for Interdependent Critical Infrastructures. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2021, 7, .	0.7	7
77	Multi-State Reliability Assessment Model of Base-Load Cyber-Physical Energy Systems (CPES) during Flexible Operation Considering the Aging of Cyber Components. Energies, 2021, 14, 3241.	1.6	8
78	Guest Editorial: Value of Information (VoI) in reliability and risk assessment. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2021, 235, 531-532.	0.6	0
79	Reliability Assessment of Passive Safety Systems for Nuclear Energy Applications: State-of-the-Art and Open Issues. Energies, 2021, 14, 4688.	1.6	13
80	Failure identification in a nuclear passive safety system by Monte Carlo simulation with adaptive Kriging. Nuclear Engineering and Design, 2021, 380, 111308.	0.8	12
81	Data-driven reliability assessment method of Integrated Energy Systems based on probabilistic deep learning and Gaussian mixture Model-Hidden Markov Model. Renewable Energy, 2021, 174, 952-970.	4.3	27
82	Novel efficient method for structural reliability analysis using hybrid nonlinear conjugate map-based support vector regression. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113818.	3.4	34
83	A Bayesian framework of inverse uncertainty quantification with principal component analysis and Kriging for the reliability analysis of passive safety systems. Nuclear Engineering and Design, 2021, 379, 111230.	0.8	14
84	Metamodeling and On-Line Clustering for Loss-of-Flow Accident Precursors Identification in a Superconducting Magnet Cryogenic Cooling Circuit. Energies, 2021, 14, 5552.	1.6	1
85	A Novel Framework for the Operational Reliability Evaluation of Integrated Electric Powerâ€"Gas Networks. IEEE Transactions on Smart Grid, 2021, 12, 3901-3913.	6.2	9
86	Identification of Critical Components in the Complex Technical Infrastructure of the Large Hadron Collider Using Relief Feature Ranking and Support Vector Machines. Energies, 2021, 14, 6000.	1.6	2
87	An integrated, systematic data-driven supply-demand side management method for smart integrated energy systems. Energy, 2021, 235, 121416.	4.5	17
88	An optimization framework for opportunistic planning of preventive maintenance activities. Reliability Engineering and System Safety, 2021, 215, 107801.	5.1	16
89	A Hierarchical Resilience Enhancement Framework for Interdependent Critical Infrastructures. Reliability Engineering and System Safety, 2021, 215, 107868.	5.1	40
90	Gaussian Fields for Predicting Drift of Oil and Gas Pipes. Journal of Pipeline Systems Engineering and Practice, 2021, 12, 04021047.	0.9	1

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91	Accounting for Safety Barriers Degradation in the Risk Assessment of Oil and Gas Systems by Multistate Bayesian Networks. Reliability Engineering and System Safety, 2021, 216, 107943.	5.1	26
92	Product technical life prediction based on multi-modes and fractional LÃ©vy stable motion. Mechanical Systems and Signal Processing, 2021, 161, 107974.	4.4	31
93	A multi-criteria model for the security assessment of large-infrastructure construction sites. International Journal of Critical Infrastructure Protection, 2021, 35, 100460.	2.9	4
94	A Framework based on Finite Mixture Models and Adaptive Kriging for Characterizing Non-Smooth and Multimodal Failure Regions in a Nuclear Passive Safety System. Reliability Engineering and System Safety, 2021, 216, 107963.	5.1	8
95	Deep Reinforcement Learning Based on Proximal Policy Optimization for the Maintenance of a Wind Farm with Multiple Crews. Energies, 2021, 14, 6743.	1.6	14
96	Deep Learning with Long Short-Term Memory Networks for Diagnosing Faults in Smart Grids. European Journal for Security Research, 2021, 6, 151-169.	2.0	3
97	A framework for the resilience analysis of complex natural gas pipeline networks from a cyber-physical system perspective. Computers and Industrial Engineering, 2021, 162, 107727.	3.4	7
98	Dynamic Reliability Assessment Framework for Integrated Energy Systems Based on the Improved Universal Generating Function. , 2021, , .		0
99	Guest Editorial: Special Issue of ESREL2020 PSAM15. European Journal for Security Research, 2021, 6, 121.	2.0	0
100	Dynamic Reliability Assessment of Cyber-Physical Energy Systems (CPEs) by GTST-MLD. , 2021, , .		1
101	A Modeling Framework for the Analysis of Integrated Energy Systems Exposed to NaTech Events Induced by Climate Change. , 2021, , .		2
102	Multihazard Risk Aggregation Approach for Quantitative Risk Assessment of Upstream Oil and Gas Facilities. , 2021, , .		0
103	Quantification of Uncertainty in CFD Simulation of Accidental Gas Release for O & G Quantitative Risk Assessment. Energies, 2021, 14, 8117.	1.6	5
104	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
105	A new framework for multi-hazards risk aggregation. Safety Science, 2020, 121, 283-302.	2.6	12
106	Risk Analysis of Cyber-Physical Systems by GTST-MLD. IEEE Systems Journal, 2020, 14, 1333-1340.	2.9	5
107	A reinforcement learning approach to optimal part flow management for gas turbine maintenance. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 52-62.	0.6	8
108	Identification of Protective Actions to Reduce the Vulnerability of Safetyâ€Critical Systems to Malevolent Intentional Acts: An Optimizationâ€Based Decisionâ€Making Approach. Risk Analysis, 2020, 40, 565-587.	1.5	8

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109	Dynamic probabilistic-based LCF damage assessment of turbine blades regarding time-varying multi-physical field loads. Engineering Failure Analysis, 2020, 108, 104193.	1.8	13
110	Fault prognostics by an ensemble of Echo State Networks in presence of event based measurements. Engineering Applications of Artificial Intelligence, 2020, 87, 103346.	4.3	19
111	Cooperative co-evolutionary approach to optimize recovery for improving resilience in multi-communities. Reliability Engineering and System Safety, 2020, 197, 106800.	5.1	9
112	A numerical approach for predicting the remaining useful life of an aviation hydraulic pump based on monitoring abrasive debris generation. Mechanical Systems and Signal Processing, 2020, 136, 106519.	4.4	18
113	Challenges to IoT-Enabled Predictive Maintenance for Industry 4.0. IEEE Internet of Things Journal, 2020, 7, 4585-4597.	5.5	141
114	Vulnerability analysis of critical infrastructure under disruptions: An application to China Railway High-speed. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 235-245.	0.6	7
115	A data-driven framework for identifying important components in complex systems. Reliability Engineering and System Safety, 2020, 204, 107197.	5.1	10
116	Definition of the data for comprehensiveness in scenario analysis of near-surface nuclear waste repositories. Data in Brief, 2020, 31, 105780.	0.5	2
117	A hierarchical tree-based decision-making approach for assessing the relative trustworthiness of risk assessment models. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 748-763.	0.6	0
118	CoVid-19 Pandemic Trend Modeling and Analysis to Support Resilience Decision-Making. Biology, 2020, 9, 156.	1.3	6
119	Optimization of an aperiodic sequential inspection and condition-based maintenance policy driven by value of information. Reliability Engineering and System Safety, 2020, 204, 107133.	5.1	38
120	Dynamic Surrogate Modeling for Multistep-ahead Prediction of Multivariate Nonlinear Chemical Processes. Industrial & Engineering Chemistry Research, 2020, 59, 15634-15655.	1.8	18
121	Integrated Deterministic and Probabilistic Safety Analysis of Integrated Energy Systems with bi-directional conversion. Energy, 2020, 212, 118685.	4.5	10
122	Time-dependent reliability-based design optimization considering aleatory and epistemic uncertainties. Structural and Multidisciplinary Optimization, 2020, 62, 2297-2321.	1.7	3
123	A Feature Selection-based Approach for the Identification of Critical Components in Complex Technical Infrastructures: Application to the CERN Large Hadron Collider. Reliability Engineering and System Safety, 2020, 201, 106974.	5.1	2
124	Integrated deterministic and probabilistic safety assessment of a superconducting magnet cryogenic cooling circuit for nuclear fusion applications. Reliability Engineering and System Safety, 2020, 201, 106945.	5.1	7
125	Considering the human operator cognitive process for the interpretation of diagnostic outcomes related to component failures and cyber security attacks. Reliability Engineering and System Safety, 2020, 202, 107007.	5.1	11
126	Bayesian Network Modelling for the Wind Energy Industry: An Overview. Reliability Engineering and System Safety, 2020, 202, 107053.	5.1	68

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127	Prediction of CoVid-19 infection, transmission and recovery rates: A new analysis and global societal comparisons. Safety Science, 2020, 129, 104854.	2.6	11
128	An extended method for evaluating assumptions deviations in quantitative risk assessment and its application to external flooding risk assessment of a nuclear power plant. Reliability Engineering and System Safety, 2020, 200, 106947.	5.1	8
129	A systematic method for the analysis of energy supply reliability in complex Integrated Energy Systems considering uncertainties of renewable energies, demands and operations. Journal of Cleaner Production, 2020, 267, 122117.	4.6	33
130	Analysing Recovery From Pandemics by Learning Theory: The Case of CoVid-19. IEEE Access, 2020, 8, 110789-110795.	2.6	17
131	Addendum: Termite, M.R. et al. A Never-Ending Learning Method for Fault Diagnostics in Energy Systems Operating in Evolving Environments. Energies 2019, 12, 4802. Energies, 2020, 13, 399.	1.6	0
132	Industrial equipment reliability estimation: A Bayesian Weibull regression model with covariate selection. Reliability Engineering and System Safety, 2020, 200, 106891.	5.1	13
133	Spectral Kurtosis of Choiâ€"Williams Distribution and Hidden Markov Model for Gearbox Fault Diagnosis. Symmetry, 2020, 12, 285.	1.1	12
134	Partially observable Markov decision processes for optimal operations of gas transmission networks. Reliability Engineering and System Safety, 2020, 199, 106893.	5.1	16
135	A novel method for maintenance record clustering and its application to a case study of maintenance optimization. Reliability Engineering and System Safety, 2020, 203, 107103.	5.1	18
136	Joint optimization of safety barriers for enhancing business continuity of nuclear power plants against steam generator tube ruptures accidents. Reliability Engineering and System Safety, 2020, 202, 107067.	5.1	11
137	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
138	Probabilistic-based combined high and low cycle fatigue assessment for turbine blades using a substructure-based kriging surrogate model. Aerospace Science and Technology, 2020, 104, 105957.	2.5	44
139	Multifractional Brownian Motion and Quantum-Behaved Partial Swarm Optimization for Bearing Degradation Forecasting. Complexity, 2020, 2020, 1-9.	0.9	18
140	An efficient method of key parameter screening for PCCS under SLB accident in AP1000. Progress in Nuclear Energy, 2020, 122, 103283.	1.3	4
141	An integrated reliability approach with improved importance sampling for low-cycle fatigue damage prediction of turbine disks. Reliability Engineering and System Safety, 2020, 199, 106819.	5.1	33
142	Accounting for Uncertainties of Magnitude- and Site-Related Parameters on Neural Network-Computed Ground-Motion Prediction Equations. Bulletin of the Seismological Society of America, 2020, 110, 629-646.	1.1	10
143	Cost minimization of repairable systems subject to availability constraints using efficient cuckoo optimization algorithm. Quality and Reliability Engineering International, 2020, 36, 1098-1110.	1.4	12
144	A practical approach for evaluating the strength of knowledge supporting risk assessment models. Safety Science, 2020, 124, 104596.	2.6	4

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145	An efficient method for passive safety systems reliability assessment. Annals of Nuclear Energy, 2020, 141, 107347.	0.9	2
146	Remaining useful life prediction using multi-scale deep convolutional neural network. Applied Soft Computing Journal, 2020, 89, 106113.	4.1	158
147	Fractional LÃ©vy stable motion: Finite difference iterative forecasting model. Chaos, Solitons and Fractals, 2020, 133, 109632.	2.5	28
148	Remaining useful life prediction for Lithium-ion batteries using fractional Brownian motion and Fruit-fly Optimization Algorithm. Measurement: Journal of the International Measurement Confederation, 2020, 161, 107904.	2.5	70
149	Configuration Optimization in Miniature Interferometric Fiber-Optic Gyroscopes for Space Application. IEEE Sensors Journal, 2020, 20, 7107-7117.	2.4	14
150	Review on Health Indices Extraction and Trend Modeling for Remaining Useful Life Estimation. , 2020, , 183-223.		9
151	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. Applied Soft Computing Journal, 2020, 89, 106116.	4.1	71
152	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
153	A new Markov-based model for reliability optimization problems with mixed redundancy strategy. Reliability Engineering and System Safety, 2020, 201, 106987.	5.1	32
154	Mixed Stochastic Process Modelling for Accelerated Degradation Testing. IFAC-PapersOnLine, 2020, 53, 796-801.	0.5	2
155	Deep Reinforcement Learning for Optimizing Operation and Maintenance of Energy Systems Equipped with PHM Capabilities. , 2020, , .		4
156	Optimal Grouping and Scheduling of Preventive Maintenance Activities. , 2020, , .		1
157	Application of reliability technologies in civil aviation: Lessons learnt and perspectives. Chinese Journal of Aeronautics, 2019, 32, 143-158.	2.8	33
158	An integrated imputation-prediction scheme for prognostics of battery data with missing observations. Expert Systems With Applications, 2019, 115, 709-723.	4.4	52
159	Optimal allocation of prognostics and health management capabilities to improve the reliability of a power transmission network. Reliability Engineering and System Safety, 2019, 184, 164-180.	5.1	21
160	Importance analysis considering timeâ€varying parameters and different perturbation occurrence times. Quality and Reliability Engineering International, 2019, 35, 2558-2578.	1.4	2
161	Adversarial Risk Analysis to Allocate Optimal Defense Resources for Protecting Cyberâ€“Physical Systems from Cyber Attacks. Risk Analysis, 2019, 39, 2766-2785.	1.5	13
162	An adaptive cuckoo optimization algorithm for system design optimization under failure dependencies. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 1099-1105.	0.6	2

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163	Mechanical Wear Life Prediction Based on Abrasive Debris Generation. , 2019, , .		1
164	Probabilistic model data of time-dependent accident scenarios for a mixing tank mechanical system. Data in Brief, 2019, 25, 104243.	0.5	0
165	Condition-based probabilistic safety assessment for maintenance decision making regarding a nuclear power plant steam generator undergoing multiple degradation mechanisms. Reliability Engineering and System Safety, 2019, 191, 106583.	5.1	14
166	Remaining Useful Life Prediction Based on a Double-Convolutional Neural Network Architecture. IEEE Transactions on Industrial Electronics, 2019, 66, 9521-9530.	5.2	253
167	A framework for dynamic risk assessment with condition monitoring data and inspection data. Reliability Engineering and System Safety, 2019, 191, 106552.	5.1	30
168	Fatigue crack growth assessment method subject to model uncertainty. Engineering Fracture Mechanics, 2019, 219, 106624.	2.0	3
169	Dynamic business continuity assessment using condition monitoring data. International Journal of Disaster Risk Reduction, 2019, 41, 101334.	1.8	7
170	A method for the multi-objective optimization of the operation of natural gas pipeline networks considering supply reliability and operation efficiency. Computers and Chemical Engineering, 2019, 131, 106584.	2.0	42
171	Analysis of configuration data errors in Communication-based Train Control systems. Simulation Modelling Practice and Theory, 2019, 96, 101941.	2.2	5
172	Resilience of Smart Power Grids to False Pricing Attacks in the Social Network. IEEE Access, 2019, 7, 80491-80505.	2.6	8
173	A modeling and optimization framework for power systems design with operational flexibility and resilience against extreme heat waves and drought events. Renewable and Sustainable Energy Reviews, 2019, 112, 706-719.	8.2	57
174	An adaptive particle swarm optimization method for multi-objective system reliability optimization. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 990-1001.	0.6	20
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