

Rui Kang

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

992
citations

516215

16
h-index

525886

27
g-index

120
all docs

120
docs citations

120
times ranked

831
citing authors

#	ARTICLE	IF	CITATIONS
1	Belief Reliability for Uncertain Random Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3605-3614.	6.5	77
2	Belief reliability: a new metrics for productsâ€™ reliability. Fuzzy Optimization and Decision Making, 2013, 12, 15-27.	3.4	69
3	A New Resilience Measure for Supply Chain Networks. Sustainability, 2017, 9, 144.	1.6	50
4	A new ranking method to fuzzy data envelopment analysis. Computers and Mathematics With Applications, 2010, 59, 3398-3404.	1.4	42
5	Modeling Accelerated Degradation Data Based on the Uncertain Process. IEEE Transactions on Fuzzy Systems, 2019, 27, 1532-1542.	6.5	40
6	Multivariate Degradation Modeling of Smart Electricity Meter with Multiple Performance Characteristics via Vine Copulas. Quality and Reliability Engineering International, 2017, 33, 803-821.	1.4	38
7	A Random Fuzzy Accelerated Degradation Model and Statistical Analysis. IEEE Transactions on Fuzzy Systems, 2018, 26, 1638-1650.	6.5	38
8	A Model-Based Reliability Metric Considering Aleatory and Epistemic Uncertainty. IEEE Access, 2017, 5, 15505-15515.	2.6	35
9	On the Tradeoff Between Energy Saving and QoS Support for Video Delivery in EEE-Based FiWi Networks Using Real-World Traffic Traces. Journal of Lightwave Technology, 2011, 29, 2670-2676.	2.7	33
10	Application of reliability technologies in civil aviation: Lessons learnt and perspectives. Chinese Journal of Aeronautics, 2019, 32, 143-158.	2.8	33
11	Using PoF models to predict system reliability considering failure collaboration. Chinese Journal of Aeronautics, 2016, 29, 1294-1301.	2.8	31
12	A Modeling Framework for System Restoration from Cascading Failures. PLoS ONE, 2014, 9, e112363.	1.1	28
13	Data Envelopment Analysis with Uncertain Inputs and Outputs. Journal of Applied Mathematics, 2014, 2014, 1-7.	0.4	24
14	Benefits analysis of prognostics in systems. , 2010, , .		23
15	Sensitivity and stability analysis in fuzzy data envelopment analysis. Fuzzy Optimization and Decision Making, 2011, 10, 1-10.	3.4	23
16	The capacitated facility location-allocation problem under uncertain environment. Journal of Intelligent and Fuzzy Systems, 2015, 29, 2217-2226.	0.8	23
17	Reliability Prediction Using Physicsâ€™Statistics-Based Degradation Model. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1573-1581.	1.4	16
18	A new method of level-2 uncertainty analysis in risk assessment based on uncertainty theory. Soft Computing, 2018, 22, 5867-5877.	2.1	15

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19	A stochastic hybrid systems based framework for modeling dependent failure processes. PLoS ONE, 2017, 12, e0172680.	1.1	15
20	Study of Accelerated Stability Test Method for Quartz Flexible Accelerometer. IEEE Transactions on Device and Materials Reliability, 2011, 11, 148-156.	1.5	14
21	Risk assessment method for cybersecurity of cyber-physical systems based on inter-dependency of vulnerabilities. , 2015, , .		14
22	Sensitivity and stability analysis of the additive model in uncertain data envelopment analysis. Soft Computing, 2015, 19, 1987-1996.	2.1	14
23	Uncertainty Expression and Propagation in the Risk Assessment of Uncertain Random System. IEEE Systems Journal, 2021, 15, 1604-1615.	2.9	14
24	A Bayesian optimal design for accelerated degradation testing based on the Inverse Gaussian process. IEEE Access, 2017, , 1-1.	2.6	13
25	Cascading Failure Modeling for Circuit Systems Using Impedance Networks: A Current-Flow Redistribution Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 632-641.	5.2	13
26	A hierarchical decision-making framework for the assessment of the prediction capability of prognostic methods. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 36-52.	0.6	12
27	A New Analytical Approach for Interval Availability Analysis of Markov Repairable Systems. IEEE Transactions on Reliability, 2018, 67, 118-128.	3.5	12
28	Condition-Based Maintenance Optimization for Multicomponent Systems Under Imperfect Repairâ€”Based on RFAD Model. IEEE Transactions on Fuzzy Systems, 2019, 27, 917-927.	6.5	12
29	Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 775-787.	3.5	11
30	Measuring reliability during product development considering aleatory and epistemic uncertainty. , 2015, , .		10
31	A Systematic Disturbance Analysis Method for Resilience Evaluation: A Case Study in Material Handling Systems. Sustainability, 2019, 11, 1447.	1.6	10
32	Resilienceâ€”based component importance measures. International Journal of Robust and Nonlinear Control, 2020, 30, 4244-4254.	2.1	10
33	Status of FMECA research and engineering application. , 2012, , .		9
34	Multi-parameters uncertainty analysis of logistic support process based on GERT. Journal of Systems Engineering and Electronics, 2014, 25, 1011-1019.	1.1	8
35	Deployment-based lifetime optimization for linear wireless sensor networks considering both retransmission and discrete power control. PLoS ONE, 2017, 12, e0188519.	1.1	8
36	Type-1 assembly line balancing considering uncertain task time. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2619-2631.	0.8	8

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37	The method of network reliability and availability simulation based on Monte Carlo. , 2012, , .		7
38	Joint optimization of LORA and spares stocks considering corrective maintenance time. Journal of Systems Engineering and Electronics, 2015, 26, 85-95.	1.1	7
39	Decomposition Method for Belief Reliability Analysis of Complex Uncertain Random Systems. IEEE Access, 2019, 7, 132711-132719.	2.6	7
40	Reliability is a science: A philosophical analysis of its validity. Applied Stochastic Models in Business and Industry, 2019, 35, 275-277.	0.9	7
41	Rolling Bearing Fault Diagnosis Based on the Coherent Demodulation Model. IEEE Access, 2020, 8, 207659-207671.	2.6	7
42	Maximum flow-based resilience analysis: From component to system. PLoS ONE, 2017, 12, e0177668.	1.1	6
43	Reliability Analysis of MS-PM System Based on Failure Mechanism Accumulation Method. IEEE Access, 2018, 6, 45707-45714.	2.6	6
44	Optimization of Spare Parts Varieties Based on Stochastic DEA Model. IEEE Access, 2018, 6, 22174-22183.	2.6	6
45	Multi-Objective Chance Constrained Programming of Spare Parts Based on Uncertainty Theory. IEEE Access, 2018, 6, 50049-50054.	2.6	6
46	Validation methodology for distribution-based degradation model. Journal of Systems Engineering and Electronics, 2012, 23, 553-559.	1.1	5
47	A life prediction method for O-ring static seal structure based on Physics of Failure. , 2014, , .		5
48	Research on the wear mechanism coupling modeling of spool valve. , 2015, , .		5
49	System resilience modeling and assessment based on minimal paths. , 2016, , .		5
50	Imperfect Debugging Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 735-746.	3.5	5
51	The modeling method on failure prognostics uncertainties in maintenance policy decision process. , 2011, , .		4
52	Consistency analysis of accelerated degradation mechanism based on gray theory. Journal of Systems Engineering and Electronics, 2014, 25, 322-331.	1.1	4
53	Reliability testing technology for computer network applications. , 2009, , .		3
54	Operation and maintenance support resources forecast model based on support activity flow. , 2010, , .		3

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55	Study on fault diagnosis system design for power supplies based on built-in test theory. , 2011, , .		3
56	Approximate instantaneous availability and its error analysis. , 2011, , .		3
57	Probabilistic modeling of solder joint thermal fatigue with Bayesian method. , 2012, , .		3
58	Life Prediction of Lithium Ion Batteries for Electric Vehicles Based on Gas Production Behavior Model. , 2017, , .		3
59	Belief reliability evaluation with uncertain right censored time-to-failure data under small sample situation. Quality and Reliability Engineering International, 2022, 38, 3099-3115.	1.4	3
60	System Reliability Evaluation Method Considering Physical Dependency with FMT and BDD Analytical Algorithm. Journal of Systems Engineering and Electronics, 2022, 33, 222-232.	1.1	3
61	A reliability model with the dependent failures for telecommunication network. , 2009, , .		2
62	Reliability sensitivity analysis via the likelihood ratio method. , 2011, , .		2
63	Failure mechanism analysis of quartz accelerometer under vibration condition. , 2011, , .		2
64	Application and improvement study on FMEA in the process of military equipment maintenance. , 2011, , .		2
65	Fisher Discriminant Analysis for fault classification. , 2012, , .		2
66	An optimal model using data envelopment analysis for uncertainty metrics in reliability. Soft Computing, 2018, 22, 5561-5568.	2.1	2
67	Operational Lifetime“Stress Model for Complex Networks. IEEE Transactions on Reliability, 2022, 71, 1255-1263.	3.5	2
68	Multiple Error Types Software Belief Reliability Growth Model Based on Uncertain Differential Equation. , 2021, , .		2
69	Study on electronics recycling process. , 2009, , .		1
70	Complicated mission success modeling of the partially repairable system. , 2009, , .		1
71	A new parameter and its algorithm for network connection reliability: k/N-terminal reliability. , 2009, , .		1
72	Research on the degradation mechanisms and finite element modeling of accelerometers. , 2011, , .		1

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73	The application status of accelerated test technology in gyroscopes life assessment. , 2011, , .		1
74	The model framework of human reliability for complicated spaceflight mission. , 2012, , .		1
75	Analysis for application reliability parameters of communication networks. , 2012, , .		1
76	Notice of Retraction Research on heading sensitive drift storage behavior of inertial platform system under the influence of temperature. , 2013, , .		1
77	Notice of Retraction Research on life calculation method for non-electric products based on life model library. , 2013, , .		1
78	Vibration effects on parameter stability of quartz flexible accelerometer by accelerated test. , 2013, , .		1
79	A simplified reliability analysis method for cloud computing systems considering common-cause failures. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2017, 231, 324-333.	0.6	1
80	Belief reliability evaluation of a quad redundant servo system: A case study. , 2017, , .		1
81	The reliability tests for biomedical devices: A review. , 2017, , .		1
82	Michaelis-Menten pharmacokinetics based on uncertain differential equations. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	1
83	Reliability Evaluation Method of Centrifugal Compressor Based on Rotor Vibration Signal Monitoring. , 2021, , .		1
84	Network failure characteristic analysis. , 2009, , .		0
85	Evaluation of military aircraft support plan based on fuzzy analytic network process in development phase. , 2009, , .		0
86	Characteristic analysis with CAE and experiment of linear rolling guideways. , 2010, , .		0
87	Status of research and development on prognostics and health management in China. , 2010, , .		0
88	FCE on the risk of operating environment assessment and improvement in the destruction of special dangerous goods. , 2011, , .		0
89	A review of the research on quantitative reliability Prediction and Assessment for electronic components. , 2011, , .		0
90	A new electronic product PHM analytical object identifying method based on failure of physics and simulation. , 2012, , .		0

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91	Simulation of residual stress in laser welding of quartz flexible accelerometer. , 2012, , .		0
92	Performance Measurement of Ultrasonic Transducer for Surgery Application. , 2012, , .		0
93	Reliability Enhancement Test of a single board computer. , 2012, , .		0
94	Complex system fault sampling under condition of imperfect repair. , 2012, , .		0
95	The research method of convex optimization for recoverable spare parts with considering false alarm rate. , 2012, , .		0
96	Research on the method of merging and optimizing functional item with support equipment. , 2012, , .		0
97	Simulation assisted FMEA of electronic product. , 2012, , .		0
98	Notice of Retraction Reliability model of missile with disturbance-dependence. , 2013, , .		0
99	Notice of Retraction CM-PMS mission performance based on fuzzy GERT. , 2013, , .		0
100	Analysis of random vibration life of mechanical parts of actuating cylinder based on the finite element. , 2013, , .		0
101	Notice of Retraction Outlier test and analysis method of degradation data based on linear regression. , 2013, , .		0
102	Simulation-based constructions of reliability confidence intervals from degradation data. , 2013, , .		0
103	Notice of Retraction Accelerated validation of product life under a second-tier stress. , 2013, , .		0
104	Research on applying diagnosis method based on artificial neural networks to evaluate ICU patients' health states. , 2014, , .		0
105	Reliability modeling method of electronic products considering failure mechanism dependence. , 2014, , .		0
106	Research on working modal identification of electronic equipment by cross spectrum. , 2014, , .		0
107	The model of health status diagnosis and evaluation of critical patients with the method of artificial neural network. , 2015, , .		0
108	A quantitative method to evaluate system resilience based on minimal cut-set and sensitivity analysis. , 2016, , .		0

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109	Economic life prediction of repairable multi-component systems based on extension theory. , 2016, , .		0
110	Reliability of multi-state systems considering failure propagating mechanisms. , 2016, , .		0
111	Resilience test and evaluation of networked control systems for given disturbances. , 2017, , .		0
112	The time-varying mesh stiffness modeling of gear system with spalling defects in different positions. , 2017, , .		0
113	Failure mechanism behavior and reliability of non-repairable system with functional dependence. , 2017, , .		0
114	Stress Simulation Analysis of Electronic Devices on Cloud Platform. , 2018, , .		0
115	Fluctuation Analysis of Instantaneous Availability for the Parallel Repairable Systems. IEEE Access, 2019, 7, 53358-53364.	2.6	0
116	Component Belief Reliability Modeling and Analysis. , 2021, , 89-112.		0
117	Study of Preferred Profile of Accelerated Stability Test Method for Quartz Flexible Accelerometer. Journal of Testing and Evaluation, 2016, 44, 1084-1094.	0.4	0
118	Time-dependent reliability assessment of a distributed generation system based on multi-valued decision diagrams and Markov processes. , 2017, , .		0
119	Human Decision Time in Uncertain Binary Choice. Symmetry, 2022, 14, 201.	1.1	0
120	A test-based methodology for the probabilistic assessment of system resilience under random disturbances. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2211088.	0.6	0