

Rui Kang

List of Publications by Year in descending order

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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	Operational Lifetime“Stress Model for Complex Networks. IEEE Transactions on Reliability, 2022, 71, 1255-1263.	3.5	2
2	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
3	Human Decision Time in Uncertain Binary Choice. Symmetry, 2022, 14, 201.	1.1	0
4	Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 775-787.	3.5	11
5	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
6	Imperfect Debugging Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 735-746.	3.5	5
7	Uncertainty Expression and Propagation in the Risk Assessment of Uncertain Random System. IEEE Systems Journal, 2021, 15, 1604-1615.	2.9	14
8	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
9	Component Belief Reliability Modeling and Analysis. , 2021, , 89-112.		0
10	Reliability Evaluation Method of Centrifugal Compressor Based on Rotor Vibration Signal Monitoring. , 2021, , .		1
11	Multiple Error Types Software Belief Reliability Growth Model Based on Uncertain Differential Equation. , 2021, , .		2
12	Resilience“based component importance measures. International Journal of Robust and Nonlinear Control, 2020, 30, 4244-4254.	2.1	10
13	Rolling Bearing Fault Diagnosis Based on the Coherent Demodulation Model. IEEE Access, 2020, 8, 207659-207671.	2.6	7
14	Application of reliability technologies in civil aviation: Lessons learnt and perspectives. Chinese Journal of Aeronautics, 2019, 32, 143-158.	2.8	33
15	Decomposition Method for Belief Reliability Analysis of Complex Uncertain Random Systems. IEEE Access, 2019, 7, 132711-132719.	2.6	7
16	Fluctuation Analysis of Instantaneous Availability for the Parallel Repairable Systems. IEEE Access, 2019, 7, 53358-53364.	2.6	0
17	Reliability is a science: A philosophical analysis of its validity. Applied Stochastic Models in Business and Industry, 2019, 35, 275-277.	0.9	7
18	A Systematic Disturbance Analysis Method for Resilience Evaluation: A Case Study in Material Handling Systems. Sustainability, 2019, 11, 1447.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Modeling Accelerated Degradation Data Based on the Uncertain Process. IEEE Transactions on Fuzzy Systems, 2019, 27, 1532-1542.	6.5	40
20	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
21	A New Analytical Approach for Interval Availability Analysis of Markov Repairable Systems. IEEE Transactions on Reliability, 2018, 67, 118-128.	3.5	12
22	A Random Fuzzy Accelerated Degradation Model and Statistical Analysis. IEEE Transactions on Fuzzy Systems, 2018, 26, 1638-1650.	6.5	38
23	Reliability Analysis of MS-PM System Based on Failure Mechanism Accumulation Method. IEEE Access, 2018, 6, 45707-45714.	2.6	6
24	Stress Simulation Analysis of Electronic Devices on Cloud Platform. , 2018, , .		0
25	Optimization of Spare Parts Varieties Based on Stochastic DEA Model. IEEE Access, 2018, 6, 22174-22183.	2.6	6
26	Belief Reliability for Uncertain Random Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3605-3614.	6.5	77
27	Type-1 assembly line balancing considering uncertain task time. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2619-2631.	0.8	8
28	Multi-Objective Chance Constrained Programming of Spare Parts Based on Uncertainty Theory. IEEE Access, 2018, 6, 50049-50054.	2.6	6
29	A new method of level-2 uncertainty analysis in risk assessment based on uncertainty theory. Soft Computing, 2018, 22, 5867-5877.	2.1	15
30	An optimal model using data envelopment analysis for uncertainty metrics in reliability. Soft Computing, 2018, 22, 5561-5568.	2.1	2
31	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
32	A Bayesian optimal design for accelerated degradation testing based on the Inverse Gaussian process. IEEE Access, 2017, , 1-1.	2.6	13
33	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
34	A Model-Based Reliability Metric Considering Aleatory and Epistemic Uncertainty. IEEE Access, 2017, 5, 15505-15515.	2.6	35
35	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
36	Resilience test and evaluation of networked control systems for given disturbances. , 2017, , .		0

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37	Life Prediction of Lithium Ion Batteries for Electric Vehicles Based on Gas Production Behavior Model. , 2017, , .		3
38	The time-varying mesh stiffness modeling of gear system with spalling defects in different positions. , 2017, , .		0
39	Failure mechanism behavior and reliability of non-repairable system with functional dependence. , 2017, , .		0
40	A New Resilience Measure for Supply Chain Networks. Sustainability, 2017, 9, 144.	1.6	50
41	Maximum flow-based resilience analysis: From component to system. PLoS ONE, 2017, 12, e0177668.	1.1	6
42	Deployment-based lifetime optimization for linear wireless sensor networks considering both retransmission and discrete power control. PLoS ONE, 2017, 12, e0188519.	1.1	8
43	Belief reliability evaluation of a quad redundant servo system: A case study. , 2017, , .		1
44	A stochastic hybrid systems based framework for modeling dependent failure processes. PLoS ONE, 2017, 12, e0172680.	1.1	15
45	Time-dependent reliability assessment of a distributed generation system based on multi-valued decision diagrams and Markov processes. , 2017, , .		0
46	The reliability tests for biomedical devices: A review. , 2017, , .		1
47	A quantitative method to evaluate system resilience based on minimal cut-set and sensitivity analysis. , 2016, , .		0
48	Economic life prediction of repairable multi-component systems based on extension theory. , 2016, , .		0
49	Reliability of multi-state systems considering failure propagating mechanisms. , 2016, , .		0
50	System resilience modeling and assessment based on minimal paths. , 2016, , .		5
51	Using PoF models to predict system reliability considering failure collaboration. Chinese Journal of Aeronautics, 2016, 29, 1294-1301.	2.8	31
52	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
53	Risk assessment method for cybersecurity of cyber-physical systems based on inter-dependency of vulnerabilities. , 2015, , .		14
54	The capacitated facility location-allocation problem under uncertain environment. Journal of Intelligent and Fuzzy Systems, 2015, 29, 2217-2226.	0.8	23

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55	Joint optimization of LORA and spares stocks considering corrective maintenance time. Journal of Systems Engineering and Electronics, 2015, 26, 85-95.	1.1	7
56	Research on the wear mechanism coupling modeling of spool valve. , 2015, , .		5
57	Reliability Prediction Using Physics-Based Statistics-Based Degradation Model. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 1573-1581.	1.4	16
58	The model of health status diagnosis and evaluation of critical patients with the method of artificial neural network. , 2015, , .		0
59	Measuring reliability during product development considering aleatory and epistemic uncertainty. , 2015, , .		10
60	Sensitivity and stability analysis of the additive model in uncertain data envelopment analysis. Soft Computing, 2015, 19, 1987-1996.	2.1	14
61	A life prediction method for O-ring static seal structure based on Physics of Failure. , 2014, , .		5
62	Research on applying diagnosis method based on artificial neural networks to evaluate ICU patients' health states. , 2014, , .		0
63	Multi-parameters uncertainty analysis of logistic support process based on GERT. Journal of Systems Engineering and Electronics, 2014, 25, 1011-1019.	1.1	8
64	Data Envelopment Analysis with Uncertain Inputs and Outputs. Journal of Applied Mathematics, 2014, 2014, 1-7.	0.4	24
65	Reliability modeling method of electronic products considering failure mechanism dependence. , 2014, , .		0
66	Consistency analysis of accelerated degradation mechanism based on gray theory. Journal of Systems Engineering and Electronics, 2014, 25, 322-331.	1.1	4
67	Research on working modal identification of electronic equipment by cross spectrum. , 2014, , .		0
68	A Modeling Framework for System Restoration from Cascading Failures. PLoS ONE, 2014, 9, e112363.	1.1	28
69	Notice of Retraction Reliability model of missile with disturbance-dependence. , 2013, , .		0
70	Notice of Retraction CM-PMS mission performance based on fuzzy GERT. , 2013, , .		0
71	Belief reliability: a new metrics for products' reliability. Fuzzy Optimization and Decision Making, 2013, 12, 15-27.	3.4	69
72	Notice of Retraction Research on heading sensitive drift storage behavior of inertial platform system under the influence of temperature. , 2013, , .		1

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73	Notice of Retraction Research on life calculation method for non-electric products based on life model library. , 2013, , .		1
74	Analysis of random vibration life of mechanical parts of actuating cylinder based on the finite element. , 2013, , .		0
75	Notice of Retraction Outlier test and analysis method of degradation data based on linear regression. , 2013, , .		0
76	Simulation-based constructions of reliability confidence intervals from degradation data. , 2013, , .		0
77	Vibration effects on parameter stability of quartz flexible accelerometer by accelerated test. , 2013, , .		1
78	Notice of Retraction Accelerated validation of product life under a second-tier stress. , 2013, , .		0
79	A new electronic product PHM analytical object identifying method based on failure of physics and simulation. , 2012, , .		0
80	Simulation of residual stress in laser welding of quartz flexible accelerometer. , 2012, , .		0
81	Validation methodology for distribution-based degradation model. Journal of Systems Engineering and Electronics, 2012, 23, 553-559.	1.1	5
82	Status of FMECA research and engineering application. , 2012, , .		9
83	Performance Measurement of Ultrasonic Transducer for Surgery Application. , 2012, , .		0
84	Reliability Enhancement Test of a single board computer. , 2012, , .		0
85	Probabilistic modeling of solder joint thermal fatigue with Bayesian method. , 2012, , .		3
86	Complex system fault sampling under condition of imperfect repair. , 2012, , .		0
87	The research method of convex optimization for recoverable spare parts with considering false alarm rate. , 2012, , .		0
88	Research on the method of merging and optimizing functional item with support equipment. , 2012, , .		0
89	Simulation assisted FMEA of electronic product. , 2012, , .		0
90	The model framework of human reliability for complicated spaceflight mission. , 2012, , .		1

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91	Fisher Discriminant Analysis for fault classification. , 2012, , .		2
92	Analysis for application reliability parameters of communication networks. , 2012, , .		1
93	The method of network reliability and availability simulation based on Monte Carlo. , 2012, , .		7
94	Research on the degradation mechanisms and finite element modeling of accelerometers. , 2011, , .		1
95	Study of Accelerated Stability Test Method for Quartz Flexible Accelerometer. IEEE Transactions on Device and Materials Reliability, 2011, 11, 148-156.	1.5	14
96	Study on fault diagnosis system design for power supplies based on built-in test theory. , 2011, , .		3
97	Reliability sensitivity analysis via the likelihood ratio method. , 2011, , .		2
98	Approximate instantaneous availability and its error analysis. , 2011, , .		3
99	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
100	FCE on the risk of operating environment assessment and improvement in the destruction of special dangerous goods. , 2011, , .		0
101	Sensitivity and stability analysis in fuzzy data envelopment analysis. Fuzzy Optimization and Decision Making, 2011, 10, 1-10.	3.4	23
102	Failure mechanism analysis of quartz accelerometer under vibration condition. , 2011, , .		2
103	A review of the research on quantitative reliability Prediction and Assessment for electronic components. , 2011, , .		0
104	The application status of accelerated test technology in gyroscopes life assessment. , 2011, , .		1
105	The modeling method on failure prognostics uncertainties in maintenance policy decision process. , 2011, , .		4
106	Application and improvement study on FMEA in the process of military equipment maintenance. , 2011, , .		2
107	Characteristic analysis with CAE and experiment of linear rolling guideways. , 2010, , .		0
108	A new ranking method to fuzzy data envelopment analysis. Computers and Mathematics With Applications, 2010, 59, 3398-3404.	1.4	42

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109	Status of research and development on prognostics and health management in China. , 2010, , .		0
110	Operation and maintenance support resources forecast model based on support activity flow. , 2010, , .		3
111	Benefits analysis of prognostics in systems. , 2010, , .		23
112	Study on electronics recycling process. , 2009, , .		1
113	Complicated mission success modeling of the partially repairable system. , 2009, , .		1
114	Reliability testing technology for computer network applications. , 2009, , .		3
115	Network failure characteristic analysis. , 2009, , .		0
116	A reliability model with the dependent failures for telecommunication network. , 2009, , .		2
117	Evaluation of military aircraft support plan based on fuzzy analytic network process in development phase. , 2009, , .		0
118	A new parameter and its algorithm for network connection reliability: k/N-terminal reliability. , 2009, , .		1
119	Michaelis-Menten pharmacokinetics based on uncertain differential equations. Journal of Ambient Intelligence and Humanized Computing, 0, , 1.	3.3	1
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