

Rui Kang

List of Publications by Year in descending order

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43
papers

706
citations

687363

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752698

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g-index

43
all docs

43
docs citations

43
times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial correlation analysis of cascading failures: Congestions and Blackouts. Scientific Reports, 2014, 4, 5381.	3.3	102
2	Measuring reliability under epistemic uncertainty: Review on non-probabilistic reliability metrics. Chinese Journal of Aeronautics, 2016, 29, 571-579.	5.3	98
3	Belief Reliability for Uncertain Random Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3605-3614.	9.8	77
4	Reliability analysis in uncertain random system. Fuzzy Optimization and Decision Making, 2016, 15, 491-506.	5.5	66
5	Uncertainty theory as a basis for belief reliability. Information Sciences, 2018, 429, 26-36.	6.9	54
6	Failure mechanism dependence and reliability evaluation of non-repairable system. Reliability Engineering and System Safety, 2015, 138, 273-283.	8.9	51
7	The α -cost minimization model for capacitated facility location-allocation problem with uncertain demands. Fuzzy Optimization and Decision Making, 2014, 13, 345-356.	5.5	48
8	VTB-RTRRP: Variable Threshold Based Response Time Reliability Real-Time Prediction. IEEE Access, 2018, 6, 60-71.	4.2	35
9	Risk assessment of uncertain random system—Level-1 and level-2 joint propagation of uncertainty and probability in fault tree analysis. Reliability Engineering and System Safety, 2020, 198, 106874.	8.9	34
10	Reliability analysis of multi-state systems subject to failure mechanism dependence based on a combination method. Reliability Engineering and System Safety, 2017, 166, 109-123.	8.9	31
11	Reliability analysis of a cold-standby system considering the development stages and accumulations of failure mechanisms. Reliability Engineering and System Safety, 2018, 180, 1-12.	8.9	23
12	A new method of level-2 uncertainty analysis in risk assessment based on uncertainty theory. Soft Computing, 2018, 22, 5867-5877.	3.6	15
13	Uncertainty Expression and Propagation in the Risk Assessment of Uncertain Random System. IEEE Systems Journal, 2021, 15, 1604-1615.	4.6	14
14	Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 775-787.	4.6	11
15	A colored generalized stochastic Petri net simulation model for service reliability evaluation of active-active cloud data center based on IT infrastructure. , 2017, , .		5
16	Integration for degradation analysis with multi-source ADT datasets considering dataset discrepancies and epistemic uncertainties. Reliability Engineering and System Safety, 2022, 222, 108430.	8.9	5
17	Imperfect Debugging Software Belief Reliability Growth Model Based on Uncertain Differential Equation. IEEE Transactions on Reliability, 2022, 71, 735-746.	4.6	5
18	Service reliability modeling of the IT infrastructure of active-active cloud data center. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
19	Belief Availability for Repairable Systems Based on Uncertain Alternating Renewal Process. IEEE Transactions on Reliability, 2021, 70, 1242-1254.	4.6	4
20	Comparative analysis of the continuous-time model and discrete-time instantaneous availability model of the delay repairable system. , 2011, , .		3
21	Reliability Analysis of Interdependent Networks Using Percolation Theory. , 2013, , .		3
22	Research on glucose concentration predicting based on ARMA model. , 2014, , .		3
23	NUMERICAL SIMULATION ON THE EXISTENCE OF FLUCTUATION OF INSTANTANEOUS AVAILABILITY. Transactions of the Canadian Society for Mechanical Engineering, 2016, 40, 703-713.	0.8	3
24	Lifetime prediction and impact factors analysis of ball grid array solder joint based on FEA. , 2010, , .		2
25	Investigation on the failure data of commercial aircrafts and computer motherboard. , 2011, , .		2
26	System Resilience Evaluation and Optimization Considering Epistemic Uncertainty. Symmetry, 2022, 14, 1182.	2.2	2
27	Connotation of failure mechanism consistency and identification method for accelerated testing. , 2011, , .		1
28	Inertial platform systems parameters degradation finite element modeling. , 2011, , .		1
29	Failure Mode, Mechanism and Effect Analysis for Single Board Computers. , 2011, , .		1
30	Accelerated acceptance sampling plan with asymmetrical information. , 2017, , .		1
31	Reliability Evaluation Based on Sentiment Analysis of Online Comment. , 2018, , .		1
32	A Quantitative Input for Evaluating Human Error of Visual Neglection: Prediction of Operator's Detection Time Spent on Perceiving Critical Visual Signal. Reliability Engineering and System Safety, 2022, , 108582.	8.9	1
33	Instantaneous availability model with 2-D discrete characteristics of one-unit repairable systems. , 2010, , .		0
34	Research on NC Machine Tool Dynamic Characteristic Considering Processing Dynamics. , 2010, , .		0
35	Storage reliability evaluation of engine control circuit module. , 2011, , .		0
36	Transient Thermal Finite Element Analysis of Accelerometers. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Mitigation of cascading failure with dynamical flux removal. , 2017, , .		0
38	An Integration Method of Expert Experience and ADT Data Based on Uncertain Cross-Entropy. , 2018, , .		0
39	How Does Node Resilience Effect on Complex Networks?. , 2018, , .		0
40	Failure behavior of multi-state system considering functional and physical isolation effects. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2110418.	0.7	0
41	Belief Reliability Analysis of Electrical Performance Based on Analog Behavior Modeling. , 2021, , .		0
42	Human Decision Time in Uncertain Binary Choice. Symmetry, 2022, 14, 201.	2.2	0
43	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.	0.7	0