Zhiqiang Cai

List of Publications by Year
in descending order

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49 papers	570 citations	840776 11 h-index	642732 23 g-index
49 all docs	49 docs citations	49 times ranked	269 citing authors

#	Article	IF	Citations
1	Recent advances in system reliability optimization driven by importance measures. Frontiers of Engineering Management, 2020, 7, 335-358.	6.1	63
2	System Reliability Allocation and Optimization Based on Generalized Birnbaum Importance Measure. IEEE Transactions on Reliability, 2019, 68, 831-843.	4.6	61
3	Optimization of linear consecutive-k-out-of-n system with a Birnbaum importance-based genetic algorithm. Reliability Engineering and System Safety, 2016, 152, 248-258.	8.9	54
4	A multi-objective reliability optimization for reconfigurable systems considering components degradation. Reliability Engineering and System Safety, 2019, 183, 104-115.	8.9	50
5	Reliability analysis for series manufacturing system with imperfect inspection considering the interaction between quality and degradation. Reliability Engineering and System Safety, 2019, 189, 345-356.	8.9	49
6	The Integrated Importance Measure of Multi-State Coherent Systems for Maintenance Processes. IEEE Transactions on Reliability, 2012, 61, 266-273.	4.6	38
7	Component Importance for Multi-State System Lifetimes With Renewal Functions. IEEE Transactions on Reliability, 2014, 63, 105-117.	4.6	26
8	Mission success probability optimization for phased-mission systems with repairable component modules. Reliability Engineering and System Safety, 2020, 195, 106750.	8.9	23
9	Analysis of epidemic vaccination strategies on heterogeneous networks: Based on SEIRV model and evolutionary game. Applied Mathematics and Computation, 2021, 403, 126172.	2.2	22
10	Competing Failure Modeling for Performance Analysis of Automated Manufacturing Systems With Serial Structures and Imperfect Quality Inspection. IEEE Transactions on Industrial Informatics, 2020, 16, 6476-6486.	11.3	17
11	An Oversampling Method of Unbalanced Data for Mechanical Fault Diagnosis Based on MeanRadius-SMOTE. Sensors, 2022, 22, 5166.	3.8	16
12	Performance evaluation of serial-parallel manufacturing systems based on the impact of heterogeneous feedstocks on machine degradation. Reliability Engineering and System Safety, 2021, 207, 107319.	8.9	14
13	Post-warranty maintenance optimization for products with deterioration depending on aging and shock. Quality Technology and Quantitative Management, 2019, 16, 651-671.	1.9	13
14	Joint Integrated Importance Measure for Multi-State Transition Systems. Communications in Statistics - Theory and Methods, 2012, 41, 3846-3862.	1.0	10
15	Survival prediction for gallbladder carcinoma after curative resection: Comparison of nomogram and Bayesian network models. European Journal of Surgical Oncology, 2020, 46, 2106-2113.	1.0	10
16	Random maintenance policies for sustaining the reliability of the product through 2D-warranty. Applied Mathematical Modelling, 2022, 111, 363-383.	4.2	10
17	Maintenance Optimization of Continuous State Systems Based on Performance Improvement. IEEE Transactions on Reliability, 2018, 67, 651-665.	4.6	9
18	Multiobjective optimization of reliabilityâ€“redundancy allocation problems for serial parallel-series systems based on importance measure. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 881-897.	0.7	9

#	Article	IF	Citations
19	Optimization of Linear Consecutive-k-Out-of-n Systems with Birnbaum Importance Based Ant Colony Optimization Algorithm. Journal of Shanghai Jiaotong University (Science), 2020, 25, 253-260.	0.9	8
20	Machine and Feedstock Interdependence Modeling for Manufacturing Networks Performance Analysis. IEEE Transactions on Industrial Informatics, 2022, 18, 5067-5076.	11.3	8
21	Research of failure prediction Bayesian network model. , 2009, , .		5
22	Importance measure of system reliability upgrade for multi-state consecutive k-out-of-n systems. Journal of Systems Engineering and Electronics, 2012, 23, 936-942.	2.2	5
23	Compositional Performance Evaluation with Importance Measures. Communications in Statistics - Theory and Methods, 2015, 44, 5240-5253.	1.0	5
24	Maintenance optimization of reconfigurable systems based on multi-objective Birnbaum importance. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2022, 236, 277-289.	0.7	5
25	Bayesian Importance Measures for Network Edges Under Saturated Lagrangian Poisson Failures. IEEE Transactions on Reliability, 2021, 70, 110-120.	4.6	5
26	Vaccination Strategy Analysis with SIRV Epidemic Model Based on Scale-free Networks with Tunable Clustering. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 032012.	0.6	5
27	Rotor fault diagnosis for machinery fault simulator under varied loads. , 2013, , .		4
28	Reliability Analysis of Manufacturing Machine with Degradation and Low-quality Feedstocks. , 2020, , .		4
29	On the Use of the Importance Measure for Multi-State Repairablek-out-of-n:GSystems. Communications in Statistics - Theory and Methods, 2014, 43, 2766-2781.	1.0	3
30	Maintenance decision making model with multiple attribute optimization. Journal of Shanghai Jiaotong University (Science), 2016, 21, 499-503.	0.9	3
31	Preoperative Analysis for Clinical Features of Unsuspected Gallbladder Cancer Based on Random Forest. , 2018, , .		3
32	Computational method for importance measure of the k-out-of-n system based on stressâ€“strength interference. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 27-40.	0.7	3
33	Marginal and joint failure importance for K-terminal network edges under counting process. Reliability Engineering and System Safety, 2022, 223, 108436.	8.9	2
34	Failure importance analysis models based on Bayesian network. , 2009, , .		1
35	Failure Importance Analysis and Adjustment Based on Bayesian Networks. , 2009, , .		1
36	Using Bayesian networks and importance measures to indentify tumour markers for breast cancer. , 2011, , .		1

#	Article	IF	Citations
37	Integrated importance based maintenance decision making. , 2012, , .		1
38	Relationship and Changing Analysis of Birnbaum Importance for Different Components with Bayesian Networks. Quality Technology and Quantitative Management, 2013, 10, 203-219.	1.9	1
39	Learning Bayesian network structure with immune algorithm. Journal of Systems Engineering and Electronics, 2015, 26, 282-291.	2.2	1
40	Maintenance Optimization of Consecutive-k-out-of-n System with Multiobjective Birnbaum Importance-based Particle Swarm Optimization. , 2019, , .		1
41	Time-dependent Reliability Analysis of a Nonrepairable Multifunctional System Containing Multifunctional Components. , 2020, , .		1
42	Continuous Improvement of Industrial Engineering Education Based on PDCA Method and Structural Importance. , 2018, , .		0
43	Evaluating network importance measures based on the construction spectrum. Advances in Mechanical Engineering, 2019, 11, 168781401983083.	1.6	0
44	Intelligent Matching Assembly: System Design Based on Reuse of Ultra-Difference Parts. International Journal of Precision Engineering and Manufacturing, 2021, 22, 1205-1220.	2.2	0
45	Reliability Evaluation and Optimization for Phased Mission Systems with Cascading Effects. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 022045.	0.6	0
46	Research of Multi-objective Component Assignment Problem for Lin/con/k/n System Considering Cost. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 032070.	0.6	0
47	Data-driven Methodology for State Detection of Gearbox in PHM Context. , 2021, , .		0
48	Operational reliability and quality loss of diversely configurated manufacturing cells with heterogeneous feedstocks. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2110653.	0.7	0
49	Publication Month Bias Evolution Patterns of Highly Cited Papers in Different Disciplines. , 2021, , .		0