

Zhiqiang Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5927529/publications.pdf>

Version: 2024-02-01

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	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
2	Machine and Feedstock Interdependence Modeling for Manufacturing Networks Performance Analysis. IEEE Transactions on Industrial Informatics, 2022, 18, 5067-5076.	11.3	8
3	Marginal and joint failure importance for K-terminal network edges under counting process. Reliability Engineering and System Safety, 2022, 223, 108436.	8.9	2
4	An Oversampling Method of Unbalanced Data for Mechanical Fault Diagnosis Based on MeanRadius-SMOTE. Sensors, 2022, 22, 5166.	3.8	16
5	Random maintenance policies for sustaining the reliability of the product through 2D-warranty. Applied Mathematical Modelling, 2022, 111, 363-383.	4.2	10
6	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
7	Bayesian Importance Measures for Network Edges Under Saturated Lagrangian Poisson Failures. IEEE Transactions on Reliability, 2021, 70, 110-120.	4.6	5
8	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
9	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
10	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
11	Reliability Evaluation and Optimization for Phased Mission Systems with Cascading Effects. IOP Conference Series: Materials Science and Engineering, 2021, 1043, 022045.	0.6	0
12	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
13	Data-driven Methodology for State Detection of Gearbox in PHM Context. , 2021, , .		0
14	Publication Month Bias Evolution Patterns of Highly Cited Papers in Different Disciplines. , 2021, , .		0
15	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
16	Computational method for importance measure of the k -out-of- n system based on stress-strength interference. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, 234, 27-40.	0.7	3
17	Mission success probability optimization for phased-mission systems with repairable component modules. Reliability Engineering and System Safety, 2020, 195, 106750.	8.9	23
18	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

#	ARTICLE	IF	CITATIONS
19	Time-dependent Reliability Analysis of a Nonrepairable Multifunctional System Containing Multifunctional Components. , 2020, , .		1
20	Reliability Analysis of Manufacturing Machine with Degradation and Low-quality Feedstocks. , 2020, , .		4
21	Recent advances in system reliability optimization driven by importance measures. Frontiers of Engineering Management, 2020, 7, 335-358.	6.1	63
22	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
23	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
24	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
25	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
26	Evaluating network importance measures based on the construction spectrum. Advances in Mechanical Engineering, 2019, 11, 168781401983083.	1.6	0
27	System Reliability Allocation and Optimization Based on Generalized Birnbaum Importance Measure. IEEE Transactions on Reliability, 2019, 68, 831-843.	4.6	61
28	Maintenance Optimization of Consecutive- k -out-of- n System with Multiobjective Birnbaum Importance-based Particle Swarm Optimization. , 2019, , .		1
29	A multi-objective reliability optimization for reconfigurable systems considering components degradation. Reliability Engineering and System Safety, 2019, 183, 104-115.	8.9	50
30	Maintenance Optimization of Continuous State Systems Based on Performance Improvement. IEEE Transactions on Reliability, 2018, 67, 651-665.	4.6	9
31	Preoperative Analysis for Clinical Features of Unsuspected Gallbladder Cancer Based on Random Forest. , 2018, , .		3
32	Continuous Improvement of Industrial Engineering Education Based on PDCA Method and Structural Importance. , 2018, , .		0
33	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
34	Maintenance decision making model with multiple attribute optimization. Journal of Shanghai Jiaotong University (Science), 2016, 21, 499-503.	0.9	3
35	Compositional Performance Evaluation with Importance Measures. Communications in Statistics - Theory and Methods, 2015, 44, 5240-5253.	1.0	5
36	Learning Bayesian network structure with immune algorithm. Journal of Systems Engineering and Electronics, 2015, 26, 282-291.	2.2	1

#	ARTICLE	IF	CITATIONS
37	Component Importance for Multi-State System Lifetimes With Renewal Functions. IEEE Transactions on Reliability, 2014, 63, 105-117.	4.6	26
38	On the Use of the Importance Measure for Multi-State Repairable k -out-of- n : G Systems. Communications in Statistics - Theory and Methods, 2014, 43, 2766-2781.	1.0	3
39	Rotor fault diagnosis for machinery fault simulator under varied loads. , 2013, , .		4
40	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
41	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
42	Integrated importance based maintenance decision making. , 2012, , .		1
43	The Integrated Importance Measure of Multi-State Coherent Systems for Maintenance Processes. IEEE Transactions on Reliability, 2012, 61, 266-273.	4.6	38
44	Joint Integrated Importance Measure for Multi-State Transition Systems. Communications in Statistics - Theory and Methods, 2012, 41, 3846-3862.	1.0	10
45	Using Bayesian networks and importance measures to identify tumour markers for breast cancer. , 2011, , .		1
46	Research of failure prediction Bayesian network model. , 2009, , .		5
47	Failure importance analysis models based on Bayesian network. , 2009, , .		1
48	Failure Importance Analysis and Adjustment Based on Bayesian Networks. , 2009, , .		1
49	Operational reliability and quality loss of diversely configured manufacturing cells with heterogeneous feedstocks. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 0, , 1748006X2110653.	0.7	0