Shubin Si

List of Publications by Year
in descending order

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60 papers	1,673 citations	361045 20 h-index	288905 40 g-index
60 all docs	60 docs citations	60 times ranked	1106 citing authors

#	Article	IF	Citations
1	Real-time information capturing and integration framework of the internet of manufacturing things. International Journal of Computer Integrated Manufacturing, 2015, 28, 811-822.	2.9	216
2	The Entropy Algorithm and Its Variants in the Fault Diagnosis of Rotating Machinery: A Review. IEEE Access, 2018, 6, 66723-66741.	2.6	207
3	Entropy Based Fault Classification Using the Case Western Reserve University Data: A Benchmark Study. IEEE Transactions on Reliability, 2020, 69, 754-767.	3.5	102
4	Integrated Importance Measure of Component States Based on Loss of System Performance. IEEE Transactions on Reliability, 2012, 61, 192-202.	3.5	88
5	Semi-Markov Process-Based Integrated Importance Measure for Multi-State Systems. IEEE Transactions on Reliability, 2015, 64, 754-765.	3.5	75
6	A cost-based integrated importance measure of system components for preventive maintenance. Reliability Engineering and System Safety, 2017, 168, 98-104.	5.1	70
7	Multiscale Diversity Entropy: A Novel Dynamical Measure for Fault Diagnosis of Rotating Machinery. IEEE Transactions on Industrial Informatics, 2021, 17, 5419-5429.	7.2	70
8	Universal behavior of cascading failures in interdependent networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22452-22457.	3.3	68
9	Recent advances in system reliability optimization driven by importance measures. Frontiers of Engineering Management, 2020, 7, 335-358.	3.3	63
10	System Reliability Allocation and Optimization Based on Generalized Birnbaum Importance Measure. IEEE Transactions on Reliability, 2019, 68, 831-843.	3.5	61
11	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.	5.1	54
12	A multi-objective reliability optimization for reconfigurable systems considering components degradation. Reliability Engineering and System Safety, 2019, 183, 104-115.	5.1	50
13	Component state-based integrated importance measure for multi-state systems. Reliability Engineering and System Safety, 2013, 116, 75-83.	5.1	47
14	The Integrated Importance Measure of Multi-State Coherent Systems for Maintenance Processes. IEEE Transactions on Reliability, 2012, 61, 266-273.	3.5	38
15	MDD-based performability analysis of multi-state linear consecutive-k-out-of-n: F systems. Reliability Engineering and System Safety, 2017, 166, 124-131.	5.1	37
16	Importance analysis for reconfigurable systems. Reliability Engineering and System Safety, 2014, 126, 72-80.	5.1	31
17	Hierarchical diversity entropy for the early fault diagnosis of rolling bearing. Nonlinear Dynamics, 2022, 108, 1447-1462.	2.7	30
18	Component Importance for Multi-State System Lifetimes With Renewal Functions. IEEE Transactions on Reliability, 2014, 63, 105-117.	3.5	26

#	Article	IF	Citations
19	Variational Embedding Multiscale Diversity Entropy for Fault Diagnosis of Large-Scale Machinery. IEEE Transactions on Industrial Electronics, 2022, 69, 3109-3119.	5.2	24
20	Mission success probability optimization for phased-mission systems with repairable component modules. Reliability Engineering and System Safety, 2020, 195, 106750.	5.1	23
21	The Optimized Multi-Scale Permutation Entropy and Its Application in Compound Fault Diagnosis of Rotating Machinery. Entropy, 2019, 21, 170.	1.1	19
22	Novel interpretable mechanism of neural networks based on network decoupling method. Frontiers of Engineering Management, 2021, 8, 572-581.	3.3	19
23	Importance measure construction and solving algorithm oriented to the cost-constrained reliability optimization model. Reliability Engineering and System Safety, 2022, 222, 108406.	5.1	18
24	An integrated method based on refined composite multivariate hierarchical permutation entropy and random forest and its application in rotating machinery. JVC/Journal of Vibration and Control, 2020, 26, 146-160.	1.5	17
25	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.	7.2	17
26	A multiple warm standby Î´-shock system with a repairman having multiple vacations. Communications in Statistics Part B: Simulation and Computation, 2017, 46, 3172-3186.	0.6	15
27	Optimal Design of Redundant Structures by Incorporating Various Costs. IEEE Transactions on Reliability, 2018, 67, 1084-1095.	3.5	15
28	Reliability Importance Measures for Network Based on Failure Counting Process. IEEE Transactions on Reliability, 2019, 68, 267-279.	3.5	15
29	Component reassignment for reliability optimization of reconfigurable systems considering component degradation. Reliability Engineering and System Safety, 2021, 215, 107867.	5.1	15
30	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.	5.1	14
31	A Generalized Griffith Importance Measure for Components With Multiple State Transitions. IEEE Transactions on Reliability, 2016, 65, 662-673.	3.5	13
32	Dynamic importance measure for the K-out-of-n: G system under repeated random load. Reliability Engineering and System Safety, 2020, 195, 106720.	5.1	13
33	A New Intelligent Fault Diagnosis Method of Rotating Machinery under Varying-Speed Conditions Using Infrared Thermography. Complexity, 2019, 2019, 1-12.	0.9	12
34	Joint Integrated Importance Measure for Multi-State Transition Systems. Communications in Statistics - Theory and Methods, 2012, 41, 3846-3862.	0.6	10
35	A stochastic analysis of competing failures with propagation effects in functional dependency gates. IISE Transactions, 2017, 49, 1050-1064.	1.6	10
36	Maintenance Optimization of Continuous State Systems Based on Performance Improvement. IEEE Transactions on Reliability, 2018, 67, 651-665.	3.5	9

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37	Research of predictive maintenance for deteriorating system based on semi-markov process. , 2009, , .		8
38	Machine and Feedstock Interdependence Modeling for Manufacturing Networks Performance Analysis. IEEE Transactions on Industrial Informatics, 2022, 18, 5067-5076.	7.2	8
39	Importance measure for K-out-of-n: G systems under dynamic random load considering strength degradation. Reliability Engineering and System Safety, 2021, 216, 107892.	5.1	7
40	Research of failure prediction Bayesian network model. , 2009, , .		5
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.	1.1	5
42	Bayesian Importance Measures for Network Edges Under Saturated Lagrangian Poisson Failures. IEEE Transactions on Reliability, 2021, 70, 110-120.	3.5	5
43	Cascading failure in networks with dynamical behavior against multi-node removal. Chaos, Solitons and Fractals, 2022, 160, 112270.	2.5	5
44	Robustness of scale-free networks with dynamical behavior against multi-node perturbation. Chaos, Solitons and Fractals, 2021, 152, 111420.	2.5	4
45	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.	0.6	3
46	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.	0.6	3
47	Operational Competitiveness of Chinese State-Owned Manufacturing Enterprise in Global Context. , 2008, , .		1
48	Failure importance analysis models based on Bayesian network. , 2009, , .		1
49	Failure Importance Analysis and Adjustment Based on Bayesian Networks. , 2009, , .		1
50	Using Bayesian networks and importance measures to indentify tumour markers for breast cancer. , 2011, , .		1
51	Relationship and Changing Analysis of Birnbaum Importance for Different Components with Bayesian Networks. Quality Technology and Quantitative Management, 2013, 10, 203-219.	1.1	1
52	Integrated importance of multi-state fault tree based on multi-state multi-valued decision diagram. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2014, 228, 200-208.	0.6	1
53	Learning Bayesian network structure with immune algorithm. Journal of Systems Engineering and Electronics, 2015, 26, 282-291.	1.1	1
54	Criticality Analysis Method Based on Integrated Importance Measure. , 2017, , .		1

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55	Bivariate copula-based CUSUM charts for monitoring conditional nonlinear processes with first-order autocorrelation. Journal of Statistical Computation and Simulation, 0, , 1-27.	0.7	1
56	Adaptive optimal model and algorithm for distributed inventory allocation based on Steiner tree. , 2009, , .		0
57	Operational competitiveness of Chinese aeronautics and astronautics manufacturing companies in global context. , 2009, , .		0
58	Design and Development of the Bayesian Network Platform Based on B/S Structure. , 2011, , .		0
59	Integrated importance analysis with Markov Bayesian networks. , 2012, , .		0
60	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.	0.6	0