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	Variational Embedding Multiscale Diversity Entropy for Fault Diagnosis of Large-Scale Machinery. IEEE Transactions on Industrial Electronics, 2022, 69, 3109-3119.	5.2	24
2	Machine and Feedstock Interdependence Modeling for Manufacturing Networks Performance Analysis. IEEE Transactions on Industrial Informatics, 2022, 18, 5067-5076.	7.2	8
3	Hierarchical diversity entropy for the early fault diagnosis of rolling bearing. Nonlinear Dynamics, 2022, 108, 1447-1462.	2.7	30
4	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
5	Cascading failure in networks with dynamical behavior against multi-node removal. Chaos, Solitons and Fractals, 2022, 160, 112270.	2.5	5
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.	5.1	14
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	Bayesian Importance Measures for Network Edges Under Saturated Lagrangian Poisson Failures. IEEE Transactions on Reliability, 2021, 70, 110-120.	3.5	5
9	Novel interpretable mechanism of neural networks based on network decoupling method. Frontiers of Engineering Management, 2021, 8, 572-581.	3.3	19
10	Component reassignment for reliability optimization of reconfigurable systems considering component degradation. Reliability Engineering and System Safety, 2021, 215, 107867.	5.1	15
11	Robustness of scale-free networks with dynamical behavior against multi-node perturbation. Chaos, Solitons and Fractals, 2021, 152, 111420.	2.5	4
12	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
13	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
14	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
15	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
16	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
17	Mission success probability optimization for phased-mission systems with repairable component modules. Reliability Engineering and System Safety, 2020, 195, 106750.	5.1	23
18	Recent advances in system reliability optimization driven by importance measures. Frontiers of Engineering Management, 2020, 7, 335-358.	3.3	63

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19	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
20	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
21	A New Intelligent Fault Diagnosis Method of Rotating Machinery under Varying-Speed Conditions Using Infrared Thermography. Complexity, 2019, 2019, 1-12.	0.9	12
22	The Optimized Multi-Scale Permutation Entropy and Its Application in Compound Fault Diagnosis of Rotating Machinery. Entropy, 2019, 21, 170.	1.1	19
23	System Reliability Allocation and Optimization Based on Generalized Birnbaum Importance Measure. IEEE Transactions on Reliability, 2019, 68, 831-843.	3.5	61
24	A multi-objective reliability optimization for reconfigurable systems considering components degradation. Reliability Engineering and System Safety, 2019, 183, 104-115.	5.1	50
25	Reliability Importance Measures for Network Based on Failure Counting Process. IEEE Transactions on Reliability, 2019, 68, 267-279.	3.5	15
26	Maintenance Optimization of Continuous State Systems Based on Performance Improvement. IEEE Transactions on Reliability, 2018, 67, 651-665.	3.5	9
27	The Entropy Algorithm and Its Variants in the Fault Diagnosis of Rotating Machinery: A Review. IEEE Access, 2018, 6, 66723-66741.	2.6	207
28	Optimal Design of Redundant Structures by Incorporating Various Costs. IEEE Transactions on Reliability, 2018, 67, 1084-1095.	3.5	15
29	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
30	A cost-based integrated importance measure of system components for preventive maintenance. Reliability Engineering and System Safety, 2017, 168, 98-104.	5.1	70
31	A stochastic analysis of competing failures with propagation effects in functional dependency gates. IISE Transactions, 2017, 49, 1050-1064.	1.6	10
32	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
33	Criticality Analysis Method Based on Integrated Importance Measure. , 2017, , .		1
34	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
35	A Generalized Griffith Importance Measure for Components With Multiple State Transitions. IEEE Transactions on Reliability, 2016, 65, 662-673.	3.5	13
36	Learning Bayesian network structure with immune algorithm. Journal of Systems Engineering and Electronics, 2015, 26, 282-291.	1.1	1

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37	Semi-Markov Process-Based Integrated Importance Measure for Multi-State Systems. IEEE Transactions on Reliability, 2015, 64, 754-765.	3.5	75
38	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
39	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
40	Component Importance for Multi-State System Lifetimes With Renewal Functions. IEEE Transactions on Reliability, 2014, 63, 105-117.	3.5	26
41	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
42	Importance analysis for reconfigurable systems. Reliability Engineering and System Safety, 2014, 126, 72-80.	5.1	31
43	Component state-based integrated importance measure for multi-state systems. Reliability Engineering and System Safety, 2013, 116, 75-83.	5.1	47
44	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
45	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
46	The Integrated Importance Measure of Multi-State Coherent Systems for Maintenance Processes. IEEE Transactions on Reliability, 2012, 61, 266-273.	3.5	38
47	Joint Integrated Importance Measure for Multi-State Transition Systems. Communications in Statistics - Theory and Methods, 2012, 41, 3846-3862.	0.6	10
48	Integrated importance analysis with Markov Bayesian networks. , 2012, , .		0
49	Integrated Importance Measure of Component States Based on Loss of System Performance. IEEE Transactions on Reliability, 2012, 61, 192-202.	3.5	88
50	Design and Development of the Bayesian Network Platform Based on B/S Structure. , 2011, , .		0
51	Using Bayesian networks and importance measures to indentify tumour markers for breast cancer. , 2011, , .		1
52	Adaptive optimal model and algorithm for distributed inventory allocation based on Steiner tree. , 2009, , .		0
53	Research of failure prediction Bayesian network model. , 2009, , .		5
54	Failure importance analysis models based on Bayesian network. , 2009, , .		1

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55	Research of predictive maintenance for deteriorating system based on semi-markov process. , 2009, , .		8
56	Failure Importance Analysis and Adjustment Based on Bayesian Networks. , 2009, , .		1
57	Operational competitiveness of Chinese aeronautics and astronautics manufacturing companies in global context. , 2009, , .		0
58	Operational Competitiveness of Chinese State-Owned Manufacturing Enterprise in Global Context. , 2008, , .		1
59	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
60	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