

Yuanshun Dai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

117
papers

2,790
citations

28
h-index

46
g-index

122
ext. papers

3,326
ext. citations

5.3
avg, IF

5.94
L-index

#	Paper	IF	Citations
117	Optimal sequencing of elements activation in 1-out-of-n warm standby system with storage. <i>Reliability Engineering and System Safety</i> , 2022 , 221, 108380	6.3	3
116	Optimal loading of repairable system with perfect product storage. <i>Reliability Engineering and System Safety</i> , 2022 , 220, 108293	6.3	4
115	Optimal mission aborting in multistate systems with storage. <i>Reliability Engineering and System Safety</i> , 2022 , 218, 108086	6.3	10
114	Service-Oriented Reliability Modeling and Autonomous Optimization of Reliability for Public Cloud Computing Systems. <i>IEEE Transactions on Reliability</i> , 2022 , 1-12	4.6	0
113	Unrepairable system with single production unit and n failure-prone identical parallel storage units. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108437	6.3	2
112	Co-residence based data theft game in cloud system with virtual machine replication and cancellation. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108415	6.3	1
111	Heterogeneous 1-out-of-n standby systems with limited unit operation time. <i>Reliability Engineering and System Safety</i> , 2022 , 108532	6.3	1
110	Unrepairable system with consecutively used imperfect storage units. <i>Reliability Engineering and System Safety</i> , 2022 , 225, 108574	6.3	1
109	Optimizing the maximum filling level of perfect storage in system with imperfect production unit. <i>Reliability Engineering and System Safety</i> , 2022 , 108629	6.3	0
108	Mission aborting and system rescue for multi-state systems with arbitrary structure. <i>Reliability Engineering and System Safety</i> , 2021 , 108225	6.3	5
107	Optimization of cyclic preventive replacement in homogeneous warm-standby system with reusable elements exposed to shocks. <i>Reliability Engineering and System Safety</i> , 2021 , 207, 107351	6.3	9
106	Optimal non-periodic replacement and reactivation in standby systems with protection and maintenance options. <i>Computers and Industrial Engineering</i> , 2021 , 155, 107178	6.4	8
105	Optimal shock-driven switching strategies with elements reuse in heterogeneous warm-standby systems. <i>Reliability Engineering and System Safety</i> , 2021 , 210, 107517	6.3	7
104	Optimal operation and maintenance scheduling in m-out-of-n standby systems with reusable elements. <i>Reliability Engineering and System Safety</i> , 2021 , 211, 107582	6.3	10
103	Mixed failure-driven and shock-driven mission aborts in heterogeneous systems with arbitrary structure. <i>Reliability Engineering and System Safety</i> , 2021 , 212, 107581	6.3	3
102	Optimal task replication considering reliability, performance, and energy consumption for parallel computing in cloud systems. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107834	6.3	0
101	Dynamic task distribution balancing primary mission work and damage reduction work in parallel systems exposed to shocks. <i>Reliability Engineering and System Safety</i> , 2021 , 215, 107907	6.3	2

100	Probabilities of mission success and system survival in multi-state systems with arbitrary structure. <i>Computers and Industrial Engineering</i> , 2021 , 161, 107597	6.4	2
99	Influence of storage on mission success probability of m-out-of-n standby systems with reusable elements. <i>Reliability Engineering and System Safety</i> , 2021 , 216, 107976	6.3	7
98	Mission Aborting in n-Unit Systems With Work Sharing. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	5
97	Mission abort and rescue for multistate systems operating under the Poisson process of shocks. <i>Reliability Engineering and System Safety</i> , 2020 , 202, 107027	6.3	9
96	State-based mission abort policies for multistate systems. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107122	6.3	19
95	Mission Abort Policy for Systems with Observable States of Standby Components. <i>Risk Analysis</i> , 2020 , 40, 1900-1912	3.9	15
94	Optimal preventive replacement policy for homogeneous cold standby systems with reusable elements. <i>Reliability Engineering and System Safety</i> , 2020 , 204, 107135	6.3	11
93	Mission abort policy optimization for series systems with overlapping primary and rescue subsystems operating in a random environment. <i>Reliability Engineering and System Safety</i> , 2020 , 193, 106590	6.3	23
92	Improving Failure Tolerance in Large-Scale Cloud Computing Systems. <i>IEEE Transactions on Reliability</i> , 2019 , 68, 620-632	4.6	8
91	Optimal structure of series system with 1-out-of-n warm standby subsystems performing operation and rescue functions. <i>Reliability Engineering and System Safety</i> , 2019 , 188, 523-531	6.3	11
90	Enabling Efficient and Geometric Range Query With Access Control Over Encrypted Spatial Data. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 870-885	8	107
89	Feature selection based on feature interactions with application to text categorization. <i>Expert Systems With Applications</i> , 2019 , 120, 207-216	7.8	42
88	Personalized Search Over Encrypted Data With Efficient and Secure Updates in Mobile Clouds. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2018 , 6, 97-109	4.1	94
87	Mission abort policy balancing the uncompleted mission penalty and system loss risk. <i>Reliability Engineering and System Safety</i> , 2018 , 176, 194-201	6.3	15
86	Co-optimization of state dependent loading and mission abort policy in heterogeneous warm standby systems. <i>Reliability Engineering and System Safety</i> , 2018 , 172, 151-158	6.3	32
85	Mission Abort Policy in Heterogeneous Nonrepairable 1-Out-of-N Warm Standby Systems. <i>IEEE Transactions on Reliability</i> , 2018 , 67, 342-354	4.6	53
84	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 1505-1520	7.3	11
83	Optimizing Dynamic Performance of Multistate Systems With Heterogeneous 1-Out-of- $\{N\}$ Warm Standby Components. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 920-929	7.3	11

82	Optimal work distribution and backup frequency for two non-identical work sharing elements. <i>Reliability Engineering and System Safety</i> , 2018 , 170, 127-136	6.3	3
81	Optimizing availability of heterogeneous standby systems exposed to shocks. <i>Reliability Engineering and System Safety</i> , 2018 , 170, 137-145	6.3	15
80	Co-residence based data vulnerability vs. security in cloud computing system with random server assignment. <i>European Journal of Operational Research</i> , 2018 , 267, 676-686	5.6	31
79	Interaction-based feature selection using Factorial Design. <i>Neurocomputing</i> , 2018 , 281, 47-54	5.4	9
78	Heterogeneous standby systems with shocks-driven preventive replacements. <i>European Journal of Operational Research</i> , 2018 , 266, 1189-1197	5.6	19
77	Heterogeneous 1-out-of-N warm standby systems with online checkpointing. <i>Reliability Engineering and System Safety</i> , 2018 , 169, 127-136	6.3	15
76	Verifiable Outsourcing Computation for Matrix Multiplication With Improved Efficiency and Applicability. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 5076-5088	10.7	20
75	Connectivity evaluation and optimal service centers allocation in repairable linear consecutively connected systems. <i>Reliability Engineering and System Safety</i> , 2018 , 176, 187-193	6.3	3
74	Optimal Periodic Inspections and Activation Sequencing Policy in Standby Systems With Condition-Based Mode Transfer. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 189-201	4.6	12
73	Reliability Versus Expected Mission Cost and Uncompleted Work in Heterogeneous Warm Standby Multiphase Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 462-473	7.3	10
72	Preventive Replacements in Real-Time Standby Systems With Periodic Backups. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 771-782	4.6	17
71	Reliability of multi-state systems with free access to repairable standby elements. <i>Reliability Engineering and System Safety</i> , 2017 , 167, 192-197	6.3	24
70	. <i>IEEE Transactions on Computers</i> , 2017 , 66, 1449-1456	2.5	14
69	Optimal arrangement of connecting elements in linear consecutively connected systems with heterogeneous warm standby groups. <i>Reliability Engineering and System Safety</i> , 2017 , 165, 395-401	6.3	10
68	Optimal Scheduling and Management on Correlating Reliability, Performance, and Energy Consumption for Multiagent Cloud Systems. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 547-558	4.6	18
67	Optimal loading of series parallel systems with arbitrary element time-to-failure and time-to-repair distributions. <i>Reliability Engineering and System Safety</i> , 2017 , 164, 34-44	6.3	15
66	. <i>IEEE Transactions on Reliability</i> , 2017 , 66, 980-988	4.6	27
65	Optimal data partitioning in cloud computing system with random server assignment. <i>Future Generation Computer Systems</i> , 2017 , 70, 17-25	7.5	32

64	Achieving efficient and privacy-preserving truth discovery in crowd sensing systems. <i>Computers and Security</i> , 2017 , 69, 114-126	4.9	46
63	Redundancy optimization for series-parallel phased mission systems exposed to random shocks. <i>Reliability Engineering and System Safety</i> , 2017 , 167, 554-560	6.3	28
62	CryptMDB: A practical encrypted MongoDB over big data 2017 ,		3
61	Optimal Distribution of Nonperiodic Full and Incremental Backups. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 3310-3320	7.3	3
60	Identity-Based Remote Data Integrity Checking With Perfect Data Privacy Preserving for Cloud Storage. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 767-778	8	246
59	Optimization of Full versus Incremental Periodic Backup Policy. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2016 , 13, 644-656	3.9	28
58	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 394-409	4.6	25
57	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 1798-1809	4.6	8
56	. <i>IEEE Transactions on Reliability</i> , 2016 , 65, 381-393	4.6	17
55	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 401-412	7.3	31
54	Privacy-Enhanced and Multifunctional Health Data Aggregation under Differential Privacy Guarantees. <i>Sensors</i> , 2016 , 16,	3.8	16
53	Towards Efficient Privacy-Preserving Truth Discovery in Crowd Sensing Systems 2016 ,		5
52	Efficient Secure Outsourcing Computation of Matrix Multiplication in Cloud Computing 2016 ,		16
51	Optimal task partition and state-dependent loading in heterogeneous two-element work sharing system. <i>Reliability Engineering and System Safety</i> , 2016 , 156, 97-108	6.3	7
50	Optimal completed work dependent loading of components in cold standby systems. <i>International Journal of General Systems</i> , 2015 , 44, 471-484	2.1	9
49	Optimal Design of Hybrid Redundant Systems With Delayed Failure-Driven Standby Mode Transfer. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015 , 45, 1336-1344	7.3	15
48	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 454-462	4.6	16
47	Optimal backup frequency in system with random repair time. <i>Reliability Engineering and System Safety</i> , 2015 , 144, 12-22	6.3	7

46	Optimal choice of standby modes in 1-out-of-N system with respect to mission reliability and cost. <i>Applied Mathematics and Computation</i> , 2015 , 258, 587-596	2.7	5
45	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 410-419	4.6	20
44	Optimal loading of system with random repair time. <i>European Journal of Operational Research</i> , 2015 , 247, 137-143	5.6	10
43	. <i>IEEE Transactions on Computers</i> , 2015 , 64, 1043-1057	2.5	39
42	m/nCCS: linear consecutively connected systems subject to combined gap constraints. <i>International Journal of General Systems</i> , 2015 , 44, 833-848	2.1	9
41	Enabling Efficient Multi-Keyword Ranked Search Over Encrypted Mobile Cloud Data Through Blind Storage. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2015 , 3, 127-138	4.1	123
40	Engineering searchable encryption of mobile cloud networks: when QoE meets QoP. <i>IEEE Wireless Communications</i> , 2015 , 22, 74-80	13.4	126
39	Linear multistate consecutively-connected systems subject to a constrained number of gaps. <i>Reliability Engineering and System Safety</i> , 2015 , 133, 246-252	6.3	23
38	Diverse multi-keyword ranked search over encrypted cloud data supporting range query 2015 ,		5
37	Efficient e-health data release with consistency guarantee under differential privacy 2015 ,		12
36	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 1325-1339	4.6	15
35	Optimal Backup Distribution in 1-out-of- $\{N\}$ Cold Standby Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2015 , 45, 636-646	7.3	18
34	Enabling efficient publicly verifiable outsourcing computation for matrix multiplication 2015 ,		7
33	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 819-828	4.6	20
32	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 444-453	4.6	17
31	Cold vs. hot standby mission operation cost minimization for 1-out-of-N systems. <i>European Journal of Operational Research</i> , 2014 , 234, 155-162	5.6	58
30	Mission Cost and Reliability of 1-out-of- $\{N\}$ Warm Standby Systems With Imperfect Switching Mechanisms. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 1262-1271	7.3	45
29	. <i>IEEE Systems Journal</i> , 2014 , 8, 313-321	4.3	11

28	Optimal defense with variable number of overarching and individual protections. <i>Reliability Engineering and System Safety</i> , 2014 , 123, 81-90	6.3	19
27	Optimal component loading in 1-out-of-N cold standby systems. <i>Reliability Engineering and System Safety</i> , 2014 , 127, 58-64	6.3	22
26	Optimization of predetermined standby mode transfers in 1-out-of-N: G systems. <i>Computers and Industrial Engineering</i> , 2014 , 72, 106-113	6.4	18
25	Optimal elements separation in non-repairable phased-mission systems. <i>International Journal of General Systems</i> , 2014 , 43, 864-879	2.1	8
24	. <i>IEEE Transactions on Reliability</i> , 2014 , 63, 251-258	4.6	25
23	Structure Optimization of Nonrepairable Phased Mission Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 121-129	7.3	17
22	Reliability of non-repairable phased-mission systems with propagated failures. <i>Reliability Engineering and System Safety</i> , 2013 , 119, 218-228	6.3	46
21	. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 637-647	4.6	37
20	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 967-978	7.3	43
19	Optimal Allocation of Multistate Components in Consecutive Sliding Window Systems. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 267-275	4.6	13
18	Cold-standby sequencing optimization considering mission cost. <i>Reliability Engineering and System Safety</i> , 2013 , 118, 28-34	6.3	48
17	Optimal sequencing of warm standby elements. <i>Computers and Industrial Engineering</i> , 2013 , 65, 570-576	6.4	67
16	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 277-290	7.3	26
15	Sequencing Optimization in k-out-of-n Cold-Standby Systems Considering Mission Cost. <i>International Journal of General Systems</i> , 2013 , 42, 870-882	2.1	34
14	Individual vs. overarching protection for minimizing the expected damage caused by an attack. <i>Reliability Engineering and System Safety</i> , 2013 , 119, 117-125	6.3	8
13	. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 618-627	4.6	16
12	. <i>IEEE Transactions on Reliability</i> , 2012 , 61, 208-214	4.6	12
11	k-out-of-n sliding window systems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2012 , 42, 707-714		19

10	An enhanced engineering perspective of global climate systems and statistical formulation of terrestrial CO ₂ exchanges. <i>Theoretical and Applied Climatology</i> , 2012 , 107, 347-359	3	2
9	Processing time analysis of cloud services with retrying fault-tolerance technique 2012 ,		6
8	Multi-state systems with selective propagated failures and imperfect individual and group protections. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 1657-1666	6.3	28
7	. <i>IEEE Transactions on Reliability</i> , 2011 , 60, 369-380	4.6	17
6	Reliability Analysis of Multistate Phased-Mission Systems With Unordered and Ordered States. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2011 , 41, 625-636		48
5	Exact combinatorial reliability analysis of dynamic systems with sequence-dependent failures. <i>Reliability Engineering and System Safety</i> , 2011 , 96, 1375-1385	6.3	40
4	Decision Diagram Based Methods and Complexity Analysis for Multi-State Systems. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 145-161	4.6	65
3	A New Decision-Diagram-Based Method for Efficient Analysis on Multistate Systems. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2009 , 6, 161-174	3.9	123
2	MBDD versus MMDD for Multistate Systems Analysis 2007 ,		12
1	Optimizing survivability of multi-state systems with multi-level protection by multi-processor genetic algorithm. <i>Reliability Engineering and System Safety</i> , 2003 , 82, 93-104	6.3	46