Gregory Levitin

List of Publications by Year in Descending Order

165 papers	**3,110** citations
31 h-index	**44** g-index
166 ext. papers	**3,722** ext. citations
5.2 avg, IF	**6.37** L-index

#	Paper	IF	Citations
165	Optimal sequencing of elements activation in 1-out-of-n warm standby system with storage. *Reliability Engineering and System Safety*, **2022**, 221, 108380	6.3	3
164	Optimal loading of repairable system with perfect product storage. *Reliability Engineering and System Safety*, **2022**, 220, 108293	6.3	4
163	Minimum cost replacement and maintenance scheduling in dual-dissimilar-unit standby systems. *Reliability Engineering and System Safety*, **2022**, 218, 108127	6.3	0
162	Optimal mission aborting in multistate systems with storage. *Reliability Engineering and System Safety*, **2022**, 218, 108086	6.3	10
161	Unrepairable system with single production unit and n failure-prone identical parallel storage units. *Reliability Engineering and System Safety*, **2022**, 222, 108437	6.3	2
160	Co-residence based data theft game in cloud system with virtual machine replication and cancellation. *Reliability Engineering and System Safety*, **2022**, 222, 108415	6.3	1
159	Heterogeneous 1-out-of-n standby systems with limited unit operation time. *Reliability Engineering and System Safety*, **2022**, 108532	6.3	1
158	Unrepairable system with consecutively used imperfect storage units. *Reliability Engineering and System Safety*, **2022**, 225, 108574	6.3	1
157	Optimizing the maximum filling level of perfect storage in system with imperfect production unit. *Reliability Engineering and System Safety*, **2022**, 108629	6.3	0
156	Making Mission Abort Decisions for Systems Operating in Random Environment. *Profiles in Operations Research*, **2022**, 283-304	1	
155	Data Resilience Under Co-residence Attacks in Cloud Environment **2021**, 739-761		0
154	Mission aborting and system rescue for multi-state systems with arbitrary structure. *Reliability Engineering and System Safety*, **2021**, 108225	6.3	5
153	Optimization of cyclic preventive replacement in homogeneous warm-standby system with reusable elements exposed to shocks. *Reliability Engineering and System Safety*, **2021**, 207, 107351	6.3	9
152	Optimal aborting strategy for three-phase missions performed by multiple units. *Reliability Engineering and System Safety*, **2021**, 208, 107408	6.3	3
151	Optimal non-periodic replacement and reactivation in standby systems with protection and maintenance options. *Computers and Industrial Engineering*, **2021**, 155, 107178	6.4	8
150	Optimal mission abort policies for repairable multistate systems performing multi-attempt mission. *Reliability Engineering and System Safety*, **2021**, 209, 107497	6.3	8
149	Optimal shock-driven switching strategies with elements reuse in heterogeneous warm-standby systems. *Reliability Engineering and System Safety*, **2021**, 210, 107517	6.3	7

148	Optimizing preventive replacement schedule in standby systems with time consuming task transfers. *Reliability Engineering and System Safety*, **2021**, 205, 107227	6.3	14
147	Optimal abort rules for additive multi-attempt missions. *Reliability Engineering and System Safety*, **2021**, 205, 107245	6.3	7
146	Optimal operation and maintenance scheduling in m-out-of-n standby systems with reusable elements. *Reliability Engineering and System Safety*, **2021**, 211, 107582	6.3	10
145	Mixed failure-driven and shock-driven mission aborts in heterogeneous systems with arbitrary structure. *Reliability Engineering and System Safety*, **2021**, 212, 107581	6.3	3
144	Optimal multiple replacement and maintenance scheduling in two-unit systems. *Reliability Engineering and System Safety*, **2021**, 213, 107803	6.3	4
143	Partial mission aborting in work sharing systems. *Reliability Engineering and System Safety*, **2021**, 214, 107716	6.3	6
142	Minimization of Expected User Losses Considering Co-resident Attacks in Cloud System with Task Replication and Cancellation. *Reliability Engineering and System Safety*, **2021**, 214, 107705	6.3	3
141	Optimal inspections and mission abort policies for multistate systems. *Reliability Engineering and System Safety*, **2021**, 214, 107700	6.3	5
140	Dynamic task distribution balancing primary mission work and damage reduction work in parallel systems exposed to shocks. *Reliability Engineering and System Safety*, **2021**, 215, 107907	6.3	2
139	Probabilities of mission success and system survival in multi-state systems with arbitrary structure. *Computers and Industrial Engineering*, **2021**, 161, 107597	6.4	2
138	Security and reliability of N-version cloud-based task solvers with individual version cancellation under data theft attacks. *Reliability Engineering and System Safety*, **2021**, 216, 107920	6.3	2
137	Influence of storage on mission success probability of m-out-of-n standby systems with reusable elements. *Reliability Engineering and System Safety*, **2021**, 216, 107976	6.3	7
136	Joint optimal mission aborting and replacement and maintenance scheduling in dual-unit standby systems. *Reliability Engineering and System Safety*, **2021**, 216, 107921	6.3	7
135	Mission Aborting in n-Unit Systems With Work Sharing. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	5
134	Optimal early warning defense of N-version programming service against co-resident attacks in cloud system. *Reliability Engineering and System Safety*, **2020**, 201, 106969	6.3	7
133	Series phased-mission systems with heterogeneous warm standby components. *Computers and Industrial Engineering*, **2020**, 145, 106552	6.4	14
132	Mission abort and rescue for multistate systems operating under the Poisson process of shocks. *Reliability Engineering and System Safety*, **2020**, 202, 107027	6.3	9
131	Optimal abort rules and subtask distribution in missions performed by multiple independent heterogeneous units. *Reliability Engineering and System Safety*, **2020**, 199, 106920	6.3	12

130	Optimal multi-attempt missions with cumulative effect. *Reliability Engineering and System Safety*, **2020**, 203, 107091	6.3	8
129	Co-Residence Data Theft Attacks on N-Version Programming-Based Cloud Services With Task Cancelation. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-10	7.3	4
128	Optimal Preventive Replacement for Cold Standby Systems With Elements Exposed to Shocks During Operation and Task Transfers. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-8	7.3	2
127	Optimizing software rejuvenation policy for tasks with periodic inspections and time limitation. *Reliability Engineering and System Safety*, **2020**, 197, 106776	6.3	3
126	Optimal aborting rule in multi-attempt missions performed by multicomponent systems. *European Journal of Operational Research*, **2020**, 283, 244-252	5.6	24
125	State-based mission abort policies for multistate systems. *Reliability Engineering and System Safety*, **2020**, 204, 107122	6.3	19
124	Mission Abort Policy for Systems with Observable States of Standby Components. *Risk Analysis*, **2020**, 40, 1900-1912	3.9	15
123	Optimal replacement and reactivation in warm standby systems performing random duration missions. *Computers and Industrial Engineering*, **2020**, 149, 106791	6.4	12
122	Optimal preventive replacement policy for homogeneous cold standby systems with reusable elements. *Reliability Engineering and System Safety*, **2020**, 204, 107135	6.3	11
121	Reliability vs. Vulnerability of N-version Programming Cloud Service Component with Dynamic Decision Time under Co-resident Attacks. *IEEE Transactions on Services Computing*, **2020**, 1-1	4.8	2
120	Optimal mission abort policies for multistate systems. *Reliability Engineering and System Safety*, **2020**, 193, 106671	6.3	20
119	Optimization of time constrained N-version programming service components with competing task execution and version corruption processes. *Reliability Engineering and System Safety*, **2020**, 193, 106666	6.3	12
118	Balancing mission success probability and risk of system loss by allocating redundancy in systems operating with a rescue option. *Reliability Engineering and System Safety*, **2020**, 195, 106694	6.3	6
117	Mission abort policy optimization for series systems with overlapping primary and rescue subsystems operating in a random environment. *Reliability Engineering and System Safety*, **2020**, 193, 106590	6.3	23
116	Cost minimization of real-time mission for software systems with rejuvenation. *Reliability Engineering and System Safety*, **2020**, 193, 106593	6.3	6
115	Dynamic Standby Sparing **2019**, 201-227		
114	Dynamic demand satisfaction probability of consecutive sliding window systems with warm standby components. *Reliability Engineering and System Safety*, **2019**, 189, 397-405	6.3	16
113	Scheduling of imperfect inspections for reliability critical systems with shock-driven defects and delayed failures. *Reliability Engineering and System Safety*, **2019**, 189, 89-98	6.3	8

94	Probabilistic competing failure analysis in phased-mission systems. *Reliability Engineering and System Safety*, **2018**, 176, 37-51	6.3	18
93	Optimization of dynamic spot-checking for collusion tolerance in grid computing. *Future Generation Computer Systems*, **2018**, 86, 30-38	7.5	2
92	Optimal mission abort policy with multiple shock number thresholds. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, **2018**, 232, 607-615	0.8	13
91	Co-optimization of state dependent loading and mission abort policy in heterogeneous warm standby systems. *Reliability Engineering and System Safety*, **2018**, 172, 151-158	6.3	32
90	Mission Abort Policy in Heterogeneous Nonrepairable 1-Out-of-N Warm Standby Systems. *IEEE Transactions on Reliability*, **2018**, 67, 342-354	4.6	53
89	*. IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1505-1520	7.3	11
88	Optimizing Dynamic Performance of Multistate Systems With Heterogeneous 1-Out-of- ${N}$ Warm Standby Components. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 920-929	7.3	11
87	Connectivity modeling and optimization of linear consecutively connected systems with repairable connecting elements. *European Journal of Operational Research*, **2018**, 264, 732-741	5.6	16
86	Optimal Mission Abort Policy for Systems Operating in a Random Environment. *Risk Analysis*, **2018**, 38, 795-803	3.9	48
85	Co-residence based data vulnerability vs. security in cloud computing system with random server assignment. *European Journal of Operational Research*, **2018**, 267, 676-686	5.6	31
84	Heterogeneous standby systems with shocks-driven preventive replacements. *European Journal of Operational Research*, **2018**, 266, 1189-1197	5.6	19
83	Optimal mission abort policy for systems in a random environment with variable shock rate. *Reliability Engineering and System Safety*, **2018**, 169, 11-17	6.3	54
82	Heterogeneous 1-out-of-N warm standby systems with online checkpointing. *Reliability Engineering and System Safety*, **2018**, 169, 127-136	6.3	15
81	Connectivity evaluation and optimal service centers allocation in repairable linear consecutively connected systems. *Reliability Engineering and System Safety*, **2018**, 176, 187-193	6.3	3
80	Optimal mission abort policy for partially repairable heterogeneous systems. *European Journal of Operational Research*, **2018**, 271, 818-825	5.6	28
79	Optimal Periodic Inspections and Activation Sequencing Policy in Standby Systems With Condition-Based Mode Transfer. *IEEE Transactions on Reliability*, **2017**, 66, 189-201	4.6	12
78	Reliability Versus Expected Mission Cost and Uncompleted Work in Heterogeneous Warm Standby Multiphase Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 462-473	7.3	10
77	Preventive Replacements in Real-Time Standby Systems With Periodic Backups. *IEEE Transactions on Reliability*, **2017**, 66, 771-782	4.6	17

76	. *IEEE Transactions on Computers*, **2017**, 66, 1449-1456	2.5	14
75	Optimal backup in heterogeneous standby systems exposed to shocks. *Reliability Engineering and System Safety*, **2017**, 165, 336-344	6.3	8
74	Optimal arrangement of connecting elements in linear consecutively connected systems with heterogeneous warm standby groups. *Reliability Engineering and System Safety*, **2017**, 165, 395-401	6.3	10
73	Balancing theft and corruption threats by data partition in cloud system with independent server protection. *Reliability Engineering and System Safety*, **2017**, 167, 248-254	6.3	26
72	Optimal loading of series parallel systems with arbitrary element time-to-failure and time-to-repair distributions. *Reliability Engineering and System Safety*, **2017**, 164, 34-44	6.3	15
71	. *IEEE Transactions on Reliability*, **2017**, 66, 980-988	4.6	27
70	Optimal data partitioning in cloud computing system with random server assignment. *Future Generation Computer Systems*, **2017**, 70, 17-25	7.5	32
69	Effect of element separation in series-parallel systems exposed to random shocks. *European Journal of Operational Research*, **2017**, 260, 305-315	5.6	7
68	1-out-of-N multi-state standby systems with state-dependent random replacement times. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, **2017**, 231, 750-760	0.8	
67	Redundancy optimization for series-parallel phased mission systems exposed to random shocks. *Reliability Engineering and System Safety*, **2017**, 167, 554-560	6.3	28
66	Optimal Distribution of Nonperiodic Full and Incremental Backups. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 3310-3320	7.3	3
65	Optimization of Full versus Incremental Periodic Backup Policy. *IEEE Transactions on Dependable and Secure Computing*, **2016**, 13, 644-656	3.9	28
64	Optimal replacement and allocation of multi-state elements in k-within-m-from-r/n sliding window systems. *Applied Stochastic Models in Business and Industry*, **2016**, 32, 184-198	1.1	16
63	. *IEEE Transactions on Reliability*, **2016**, 65, 394-409	4.6	25
62	. *IEEE Transactions on Reliability*, **2016**, 65, 1798-1809	4.6	8
61	. *IEEE Transactions on Reliability*, **2016**, 65, 381-393	4.6	17
60	Optimal task partition and state-dependent loading in heterogeneous two-element work sharing system. *Reliability Engineering and System Safety*, **2016**, 156, 97-108	6.3	7
59	Optimal completed work dependent loading of components in cold standby systems. *International Journal of General Systems*, **2015**, 44, 471-484	2.1	9

58	Optimal Design of Hybrid Redundant Systems With Delayed Failure-Driven Standby Mode Transfer. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 1336-1344	7.3	15
57	. *IEEE Transactions on Reliability*, **2015**, 64, 454-462	4.6	16
56	Combinatorial analysis of body sensor networks subject to probabilistic competing failures. *Reliability Engineering and System Safety*, **2015**, 142, 388-398	6.3	25
55	Optimal backup frequency in system with random repair time. *Reliability Engineering and System Safety*, **2015**, 144, 12-22	6.3	7
54	. *IEEE Transactions on Reliability*, **2015**, 64, 410-419	4.6	20
53	Probabilistic common cause failures in phased-mission systems. *Reliability Engineering and System Safety*, **2015**, 144, 53-60	6.3	45
52	Optimal loading of system with random repair time. *European Journal of Operational Research*, **2015**, 247, 137-143	5.6	10
51	. *IEEE Transactions on Computers*, **2015**, 64, 1043-1057	2.5	39
50	m/nCCS: linear consecutively connected systems subject to combined gap constraints. *International Journal of General Systems*, **2015**, 44, 833-848	2.1	9
49	Linear multistate consecutively-connected systems subject to a constrained number of gaps. *Reliability Engineering and System Safety*, **2015**, 133, 246-252	6.3	23
48	. *IEEE Transactions on Reliability*, **2015**, 64, 1325-1339	4.6	15
47	Optimal Backup Distribution in 1-out-of- ${N}$ Cold Standby Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2015**, 45, 636-646	7.3	18
46	Optimal resource distribution between protection and redundancy considering the time and uncertainties of attacks. *European Journal of Operational Research*, **2015**, 243, 200-210	5.6	30
45	. *IEEE Transactions on Reliability*, **2015**, 64, 819-828	4.6	20
44	. *IEEE Transactions on Reliability*, **2015**, 64, 444-453	4.6	17
43	Cold vs. hot standby mission operation cost minimization for 1-out-of-N systems. *European Journal of Operational Research*, **2014**, 234, 155-162	5.6	58
42	Mission Cost and Reliability of 1-out-of- N Warm Standby Systems With Imperfect Switching Mechanisms. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2014**, 44, 1262-1271	7.3	45
41	Optimal connecting elements allocation in linear consecutively-connected systems with phased mission and common cause failures. *Reliability Engineering and System Safety*, **2014**, 130, 85-94	6.3	21

40	Optimal component loading in 1-out-of-N cold standby systems. *Reliability Engineering and System Safety*, **2014**, 127, 58-64	6.3	22
39	Optimization of predetermined standby mode transfers in 1-out-of-N: G systems. *Computers and Industrial Engineering*, **2014**, 72, 106-113	6.4	18
38	Optimal elements separation in non-repairable phased-mission systems. *International Journal of General Systems*, **2014**, 43, 864-879	2.1	8
37	Structure Optimization of Nonrepairable Phased Mission Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2014**, 44, 121-129	7.3	17
36	Reliability of non-repairable phased-mission systems with propagated failures. *Reliability Engineering and System Safety*, **2013**, 119, 218-228	6.3	46
35	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2013**, 43, 967-978	7.3	43
34	Optimal Allocation of Multistate Components in Consecutive Sliding Window Systems. *IEEE Transactions on Reliability*, **2013**, 62, 267-275	4.6	13
33	BDD-based reliability evaluation of phased-mission systems with internal/external common-cause failures. *Reliability Engineering and System Safety*, **2013**, 112, 145-153	6.3	86
32	Is it wise to leave some false targets unprotected?. *Reliability Engineering and System Safety*, **2013**, 112, 176-186	6.3	18
31	Reliability analysis of multi-trigger binary systems subject to competing failures. *Reliability Engineering and System Safety*, **2013**, 111, 9-17	6.3	40
30	Algorithm for Reliability Evaluation of Nonrepairable Phased-Mission Systems Consisting of Gradually Deteriorating Multistate Elements. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2013**, 43, 63-73	7.3	21
29	Optimal sequencing of warm standby elements. *Computers and Industrial Engineering*, **2013**, 65, 570-576	6.4	67
28	Sequencing Optimization in k-out-of-n Cold-Standby Systems Considering Mission Cost. *International Journal of General Systems*, **2013**, 42, 870-882	2.1	34
27	. *IEEE Transactions on Reliability*, **2013**, 62, 618-627	4.6	16
26	Propagated failure analysis for non-repairable systems considering both global and selective effects. *Reliability Engineering and System Safety*, **2012**, 99, 96-104	6.3	10
25	Data survivability vs. security in information systems. *Reliability Engineering and System Safety*, **2012**, 100, 19-27	6.3	25
24	. *IEEE Transactions on Reliability*, **2012**, 61, 208-214	4.6	12
23	k-out-of-n sliding window systems. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2012**, 42, 707-714		19

22	Element maintenance and allocation for linear consecutively connected systems. *IIE Transactions*, **2012**, 44, 964-973		48
21	Competing failure analysis in phased-mission systems with functional dependence in one of phases. *Reliability Engineering and System Safety*, **2012**, 108, 90-99	6.3	39
20	Resource distribution in multiple attacks with imperfect detection of the attack outcome. *Risk Analysis*, **2012**, 32, 304-18	3.9	17
19	Optimal Replacement and Protection Strategy for Parallel Systems. *Springer Series in Reliability Engineering*, **2012**, 135-144	0.2	2
18	Competing failure analysis in non-repairable binary systems subject to functional dependence. *Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability*, **2012**, 226, 406-416	0.8	7
17	Defense resource distribution between protection and redundancy for constant resource stockpiling pace. *Risk Analysis*, **2011**, 31, 1632-45	3.9	11
16	Multi-state systems with selective propagated failures and imperfect individual and group protections. *Reliability Engineering and System Safety*, **2011**, 96, 1657-1666	6.3	28
15	Combinatorial Algorithm for Reliability Analysis of Multistate Systems With Propagated Failures and Failure Isolation Effect. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2011**, 41, 1156-1165		38
14	Shield versus sword resource distribution in K-round duels. *Central European Journal of Operations Research*, **2011**, 19, 589-603	2.2	10
13	Reliability of multi-state systems with common bus performance sharing. *IIE Transactions*, **2011**, 43, 518-524		53
12	Reliability and performance of multi-state systems with propagated failures having selective effect. *Reliability Engineering and System Safety*, **2010**, 95, 655-661	6.3	93
11	Combinatorial analysis of systems with competing failures subject to failure isolation and propagation effects. *Reliability Engineering and System Safety*, **2010**, 95, 1210-1215	6.3	52
10	Optimal load distribution in series‐parallel systems. *Reliability Engineering and System Safety*, **2009**, 94, 254-260	6.3	37
9	Efficiency of even separation of parallel elements with variable contest intensity. *Risk Analysis*, **2008**, 28, 1477-86	3.9	33
8	Optimal Structure of Multi-State Systems With Uncovered Failures. *IEEE Transactions on Reliability*, **2008**, 57, 140-148	4.6	36
7	. *IEEE Transactions on Reliability*, **2007**, 56, 148-157	4.6	62
6	. *IEEE Transactions on Reliability*, **2007**, 56, 444-453	4.6	28
5	Performance and Reliability of Tree-Structured Grid Services Considering Data Dependence and Failure Correlation. *IEEE Transactions on Computers*, **2007**, 56, 925-936	2.5	42

List of Publications

4	Genetic algorithms in reliability engineering. *Reliability Engineering and System Safety*, **2006**, 91, 975-976	6.3	91
3	Optimal allocation of multi-state elements in linear consecutively connected systems with vulnerable nodes. *European Journal of Operational Research*, **2003**, 150, 406-419	5.6	39
2	Reliability evaluation for linear consecutively-connected systems with multistate elements and retransmission delays. *Quality and Reliability Engineering International*, **2001**, 17, 373-378	2.6	14
1	Structure optimization of power system with different redundant elements. *Electric Power Systems Research*, **1997**, 43, 19-27	3.5	104