Liudong Xing

List of Publications by Citations

285 papers	4,939 citations	38 h-index	54 g-index
303 ext. papers	5,998 ext. citations	4.4 avg, IF	6.75 L-index

#	Paper	IF	Citations
285	Analysis of generalized phased-mission system reliability, performance, and sensitivity. *IEEE Transactions on Reliability*, **2002**, 51, 199-211	4.6	132
284	A New Decision-Diagram-Based Method for Efficient Analysis on Multistate Systems. *IEEE Transactions on Dependable and Secure Computing*, **2009**, 6, 161-174	3.9	123
283	Reliability Evaluation of Phased-Mission Systems With Imperfect Fault Coverage and Common-Cause Failures. *IEEE Transactions on Reliability*, **2007**, 56, 58-68	4.6	118
282	Reliability of demand-based phased-mission systems subject to fault level coverage. *Reliability Engineering and System Safety*, **2014**, 121, 18-25	6.3	96
281	. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2012**, 42, 715-726		95
280	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
279	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
278	A Multiple-Valued Decision Diagram Based Method for Efficient Reliability Analysis of Non-Repairable Phased-Mission Systems. *IEEE Transactions on Reliability*, **2014**, 63, 320-330	4.6	81
277	An Efficient Binary-Decision-Diagram-Based Approach for Network Reliability and Sensitivity Analysis. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2008**, 38, 105-115		76
276	Optimal sequencing of warm standby elements. *Computers and Industrial Engineering*, **2013**, 65, 570-576	6.4	67
275	Reliability analysis and optimal structure of series-parallel phased-mission systems subject to fault-level coverage. *IIE Transactions*, **2016**, 48, 736-746		66
274	Decision Diagram Based Methods and Complexity Analysis for Multi-State Systems. *IEEE Transactions on Reliability*, **2010**, 59, 145-161	4.6	65
273	Reliability of k-out-of-n systems with phased-mission requirements and imperfect fault coverage. *Reliability Engineering and System Safety*, **2012**, 103, 45-50	6.3	63
272	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
271	Efficient analysis of multi-state k-out-of-n systems. *Reliability Engineering and System Safety*, **2015**, 133, 95-105	6.3	54
270	Mission Abort Policy in Heterogeneous Nonrepairable 1-Out-of-N Warm Standby Systems. *IEEE Transactions on Reliability*, **2018**, 67, 342-354	4.6	53
269	System performance-based joint importance analysis guided maintenance for repairable systems. *Reliability Engineering and System Safety*, **2019**, 186, 162-175	6.3	52

268	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
267	**2015**,		52
266	Competing failure analysis in phased-mission systems with multiple functional dependence groups. *Reliability Engineering and System Safety*, **2017**, 164, 24-33	6.3	51
265	Reliability-Oriented Single-Path Routing Protocols in Wireless Sensor Networks. *IEEE Sensors Journal*, **2014**, 14, 4059-4068	4	51
264	Cold-standby sequencing optimization considering mission cost. *Reliability Engineering and System Safety*, **2013**, 118, 28-34	6.3	48
263	Reliability Analysis of Multistate Phased-Mission Systems With Unordered and Ordered States. *IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans*, **2011**, 41, 625-636		48
262	MDD-Based Method for Efficient Analysis on Phased-Mission Systems With Multimode Failures. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2014**, 44, 757-769	7.3	46
261	Reliability of non-repairable phased-mission systems with propagated failures. *Reliability Engineering and System Safety*, **2013**, 119, 218-228	6.3	46
260	Probabilistic common cause failures in phased-mission systems. *Reliability Engineering and System Safety*, **2015**, 144, 53-60	6.3	45
259	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
258	Influence of failure propagation on mission abort policy in heterogeneous warm standby systems. *Reliability Engineering and System Safety*, **2019**, 183, 29-38	6.3	45
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256	Reliability in Internet of Things: Current Status and Future Perspectives. *IEEE Internet of Things Journal*, **2020**, 7, 6704-6721	10.7	42
255	. *IEEE Transactions on Computers*, **2010**, 59, 1419-1433	2.5	41
254	Reliability analysis of multi-trigger binary systems subject to competing failures. *Reliability Engineering and System Safety*, **2013**, 111, 9-17	6.3	40
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249	Combinatorial Reliability Analysis of Imperfect Coverage Systems Subject to Functional Dependence. *IEEE Transactions on Reliability*, **2014**, 63, 367-382	4.6	38
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247	Multi-Valued Decision Diagram-Based Reliability Analysis of k -out-of-n Cold Standby Systems Subject to Scheduled Backups. *IEEE Transactions on Reliability*, **2015**, 64, 1310-1324	4.6	37
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244	Modeling and Evaluating the Reliability of Wireless Sensor Networks **2007**,		36
243	Reliability evaluation of unrepairable k -out-of- n : G systems with phased-mission requirements based on record values. *Reliability Engineering and System Safety*, **2018**, 178, 191-197	6.3	36
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239	A Logarithmic Binary Decision Diagram-Based Method for Multistate System Analysis. *IEEE Transactions on Reliability*, **2008**, 57, 595-606	4.6	34
238	Reliability analysis of hierarchical computer-based systems subject to common-cause failures. *Reliability Engineering and System Safety*, **2007**, 92, 351-359	6.3	34
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