Hoang Pham

List of Publications by Year
in descending order

150 papers	5,728 citations	101543 36 h-index	88630 70 g-index
162 all docs	162 docs citations	162 times ranked	2020 citing authors

#	Article	IF	Citations
1	Imperfect maintenance. European Journal of Operational Research, 1996, 94, 425-438.	5.7	707
2	Modeling the Dependent Competing Risks With Multiple Degradation Processes and Random Shock Using Time-Varying Copulas. IEEE Transactions on Reliability, 2012, 61, 13-22.	4.6	225
3	A general imperfect-software-debugging model with S-shaped fault-detection rate. IEEE Transactions on Reliability, 1999, 48, 169-175.	4.6	222
4	A Multi-Objective Optimization of Imperfect Preventive Maintenance Policy for Dependent Competing Risk Systems With Hidden Failure. IEEE Transactions on Reliability, 2011, 60, 770-781.	4.6	217
5	NHPP software reliability and cost models with testing coverage. European Journal of Operational Research, 2003, 145, 443-454.	5.7	189
6	On Recent Generalizations of the Weibull Distribution. IEEE Transactions on Reliability, 2007, 56, 454-458.	4.6	171
7	Considering fault removal efficiency in software reliability assessment. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 114-120.	2.9	164
8	An NHPP Software Reliability Model and Its Comparison. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 269-282.	0.6	146
9	A software cost model with warranty and risk costs. IEEE Transactions on Computers, 1999, 48, 71-75.	3.4	146
10	An analysis of factors affecting software reliability. Journal of Systems and Software, 2000, 50, 43-56.	4.5	123
11	A quasi renewal process and its applications in imperfect maintenance. International Journal of Systems Science, 1996, 27, 1055-1062.	5.5	116
12	A software cost model with imperfect debugging, random life cycle and penalty cost. International Journal of Systems Science, 1996, 27, 455-463.	5.5	115
13	A New Criterion for Model Selection. Mathematics, 2019, 7, 1215.	2.2	98
14	Software reliability and cost models: Perspectives, comparison, and practice. European Journal of Operational Research, 2003, 149, 475-489.	5.7	97
15	Optimal (?,T) opportunistic maintenance of ak-out-of-n:G system with imperfect PM and partial failure. Naval Research Logistics, 2000, 47, 223-239.	2.2	91
16	NHPP software reliability model considering the uncertainty of operating environments with imperfect debugging and testing coverage. Applied Mathematical Modelling, 2017, 51, 68-85.	4.2	89
17	A methodology for priority setting with application to software development process. European Journal of Operational Research, 1999, 118, 375-389.	5.7	75
18	A new software reliability model with Vtub-shaped fault-detection rate and the uncertainty of operating environments. Optimization, 2014, 63, 1481-1490.	1.7	68

#	Article	IF	Citations
19	Software field failure rate prediction before software deployment. Journal of Systems and Software, 2006, 79, 291-300.	4.5	64
20	Maintenance for Industrial Systems. Springer Series in Reliability Engineering, 2010, , .	0.5	61
21	Calibrating software reliability models when the test environment does not match the user environment. Applied Stochastic Models in Business and Industry, 2002, 18, 87-99.	1.5	54
22	Remote control and maintenance outsourcing networks and its applications in supply chain management. Journal of Operations Management, 2007, 25, 1275-1291.	5.2	51
23	Warranty Cost Analyses Using Quasi-Renewal Processes for Multicomponent Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 1329-1340.	2.9	51
24	A quasi-renewal process for software reliability and testing costs. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2001, 31, 623-631.	2.9	46
25	An imperfect-debugging fault-detection dependent-parameter software. International Journal of Automation and Computing, 2007, 4, 325-328.	4.5	46
26	Quasi-Renewal Time-Delay Fault-Removal Consideration in Software Reliability Modeling. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 200-209.	2.9	46
27	Reliability analysis of a high voltage system with dependent failures and imperfect coverage. Reliability Engineering and System Safety, 1992, 37, 25-28.	8.9	44
28	A Generalized Software Reliability Growth Model With Consideration of the Uncertainty of Operating Environments. IEEE Access, 2019, 7, 84253-84267.	4.2	44
29	Reliability Modeling of Hardware and Software Interactions, and Its Applications. IEEE Transactions on Reliability, 2006, 55, 571-577.	4.6	43
30	Entropy Based Software Reliability Analysis of Multi-Version Open Source Software. IEEE Transactions on Software Engineering, 2018, 44, 1207-1223.	5.6	42
31	A testing-coverage software reliability model considering fault removal efficiency and error generation. PLoS ONE, 2017, 12, e0181524.	2.5	42
32	A software cost model for quantifying the gain with considerations of random field environments. IEEE Transactions on Computers, 2004, 53, 380-384.	3.4	41
33	Cost analysis on renewable full-service warranties for multi-component systems. European Journal of Operational Research, 2006, 168, 492-508.	5.7	41
34	On the Maximum Likelihood Estimates for the Goelâ€“Okumoto Software Reliability Model. American Statistician, 2001, 55, 219-222.	1.6	40
35	Loglog fault-detection rate and testing coverage software reliability models subject to random environments. Vietnam Journal of Computer Science, 2014, 1, 39-45.	1.2	40
36	A multi-release software reliability modeling for open source software incorporating dependent fault detection process. Annals of Operations Research, 2018, 269, 773-790.	4.1	40

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37	A software-reliability growth model for N-version programming systems. IEEE Transactions on Reliability, 2002, 51, 311-321.	4.6	39
38	Optimal allocation of testing effort during testing and debugging phases: a control theoretic approach. International Journal of Systems Science, 2013, 44, 1639-1650.	5.5	39
39	A Software Reliability Model with a Weibull Fault Detection Rate Function Subject to Operating Environments. Applied Sciences (Switzerland), 2017, 7, 983.	2.5	39
40	A software cost model with error removal times and risk costs. International Journal of Systems Science, 1998, 29, 435-442.	5.5	36
41	Software release policies with gain in reliability justifying the costs. Annals of Software Engineering, 1999, 8, 147-166.	0.5	36
42	Cost-effective condition-based maintenance using markov decision processes. , 0, , .		36
43	Optimal maintenance policies for several imperfect repair models. International Journal of Systems Science, 1996, 27, 543-549.	5.5	32
44	On Estimating the Number of Deaths Related to Covid-19. Mathematics, 2020, 8, 655.	2.2	32
45	OPTIMAL AGE-DEPENDENT PREVENTIVE MAINTENANCE POLICIES WITH IMPERFECT MAINTENANCE. International Journal of Reliability, Quality and Safety Engineering, 1996, 03, 119-135.	0.6	31
46	A two-phase software reliability modeling involving with software fault dependency and imperfect fault removal. Computer Languages, Systems and Structures, 2018, 53, 27-42.	1.4	30
47	A software cost model with warranty cost, error removal times and risk costs. IIE Transactions, 1998, 30, 1135-1142.	2.1	29
48	A Generalized Block Replacement Policy for a k-Out-of-n System With Respect to Threshold Number of Failed Components and Risk Costs. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 453-463.	2.9	29
49	Preface: reliability and quality management in stochastic systems. Annals of Operations Research, 2019, 277, 1-2.	4.1	29
50	Exploratory analysis of environmental factors for enhancing the software reliability assessment. Journal of Systems and Software, 2001, 57, 73-78.	4.5	28
51	Imperfect preventive maintenance policies for two-process cumulative damage model of degradation and random shocks. International Journal of Systems Assurance Engineering and Management, 2011, 2, 66-77.	2.4	28
52	A software reliability model with time-dependent fault detection and fault removal. Vietnam Journal of Computer Science, 2016, 3, 71-79.	1.2	28
53	A generalized fault-detection software reliability model subject to random operating environments. Vietnam Journal of Computer Science, 2016, 3, 145-150.	1.2	28
54	A Bayesian predictive software reliability model with pseudo-failures. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2001, 31, 233-238.	2.9	27

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55	A comparison analysis of environmental factors affecting software reliability. Journal of Systems and Software, 2015, 109, 150-160.	4.5	27
56	A three-parameter fault-detection software reliability model with the uncertainty of operating environments. Journal of Systems Science and Systems Engineering, 2017, 26, 121-132.	1.6	27
57	Reliability and MTTF prediction ofK-out-of-ncomplex systems with components subjected to multiple stages of degradation. International Journal of Systems Science, 1996, 27, 995-1000.	5.5	26
58	Altered quasi-renewal concepts for modeling renewable warranty costs with imperfect repairs. Mathematical and Computer Modelling, 2010, 52, 1435-1450.	2.0	26
59	Software Reliability Model with Dependent Failures and SPRT. Mathematics, 2020, 8, 1366.	2.2	26
60	Modeling the reliability of threshold weighted voting systems. Reliability Engineering and System Safety, 2005, 87, 53-63.	8.9	25
61	A Cost Analysis of Systems Subject to Random Field Environments and Reliability. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 429-437.	2.9	24
62	Warranty Cost Analysis for $khbox{-}outhbox{-}ofhbox{-}n$ Systems With 2-D Warranty. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 947-957.	2.9	24
63	A generalized software reliability model with stochastic fault-detection rate. Annals of Operations Research, 2019, 277, 83-93.	4.1	24
64	Commentary: steady-state series-system availability. IEEE Transactions on Reliability, 2003, 52, 146-147.	4.6	22
65	On the estimation of reliability of k-out-of-n systems. International Journal of Systems Assurance Engineering and Management, 2010, 1, 32-35.	2.4	22
66	An NHPP Software Reliability Model with S-Shaped Growth Curve Subject to Random Operating Environments and Optimal Release Time. Applied Sciences (Switzerland), 2017, 7, 1304.	2.5	22
67	Reliability modeling of multiâ€state degraded repairable systems and its applications to automotive systems. Quality and Reliability Engineering International, 2018, 34, 459-474.	2.3	22
68	A Testing Coverage Model Based on NHPP Software Reliability Considering the Software Operating Environment and the Sensitivity Analysis. Mathematics, 2019, 7, 450.	2.2	21
69	A testing-coverage software reliability model with the uncertainty of operating environments. International Journal of Systems Science: Operations and Logistics, 2014, 1, 220-227.	3.0	20
70	Systemability function to optimisation reliability in random environment. International Journal of Mathematics in Operational Research, 2009, 1, 397.	0.2	19
71	Environmental factors analysis and comparison affecting software reliability in development of multi-release software. Journal of Systems and Software, 2017, 132, 72-84.	4.5	19
72	Optimal system size for k-out-of-n systems with competing failure modes. Mathematical and Computer Modelling, 1991, 15, 77-81.	2.0	18

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73	Reliability of decision making in human-organizations. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1997, 27, 543-549.	2.9	18
74	Reliability Analysis of the CNC System Based on Field Failure Data in Operating Environments. Quality and Reliability Engineering International, 2016, 32, 1955-1963.	2.3	18
75	Age replacement policy in a random environment using systemability. International Journal of Systems Science, 2010, 41, 1383-1397.	5.5	17
76	Modeling U.S. Mortality and Risk-Cost Optimization on Life Expectancy. IEEE Transactions on Reliability, 2011, 60, 125-133.	4.6	17
77	A software reliability model incorporating martingale process with gamma-distributed environmental factors. Annals of Operations Research, 0, , 1.	4.1	16
78	NHPP Software Reliability Model with Inflection Factor of the Fault Detection Rate Considering the Uncertainty of Software Operating Environments and Predictive Analysis. Symmetry, 2019, 11, 521.	2.2	16
79	Dynamic optimal control model for profit maximization of software product under the influence of promotional effort. Journal of High Technology Management Research, 2012, 23, 122-129.	4.9	15
80	A Software Reliability Model Considering the Syntax Error in Uncertainty Environment, Optimal Release Time, and Sensitivity Analysis. Applied Sciences (Switzerland), 2018, 8, 1483.	2.5	15
81	Optimal Release Time and Sensitivity Analysis Using a New NHPP Software Reliability Model with Probability of Fault Removal Subject to Operating Environments. Applied Sciences (Switzerland), 2018, 8, 714.	2.5	15
82	A Novel System Reliability Modeling of Hardware, Software, and Interactions of Hardware and Software. Mathematics, 2019, 7, 1049.	2.2	15
83	A Software Reliability Model with Dependent Failure and Optimal Release Time. Symmetry, 2022, 14, 343.	2.2	15
84	A Novel Approach for Optimal Cost-Effective Design of Complex Repairable Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2007, 37, 406-415.	2.9	14
85	Reliability models for systems with internal and external redundancy. International Journal of Systems Assurance Engineering and Management, 2010, 1, 362-369.	2.4	14
86	A novel generalized logistic dependent model to predict the presence of breast cancer based on biomarkers. Concurrency Computation Practice and Experience, 2020, 32, e5467.	2.2	14
87	Analyzing the effects of air pollution and mortality by generalized additive models with robust principal components. International Journal of Systems Assurance Engineering and Management, 2011, 2, 253-259.	2.4	13
88	Modeling Software Fault-Detection and Fault-Correction Processes by Considering the Dependencies between Fault Amounts. Applied Sciences (Switzerland), 2021, 11, 6998.	2.5	13
89	A generalized surveillance model with applications to systems safety. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2002, 32, 485-492.	2.9	12
90	Recent Studies in Software Reliability Engineering. , 2003, , 285-302.		11

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91	Master Defect Record Retrieval Using Network-Based Feature Association. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 319-329.	2.9	11
92	An Empirical Study of Factor Identification in Smart Health-Monitoring Wearable Device. IEEE Transactions on Computational Social Systems, 2020, 7, 404-416.	4.4	11
93	Estimating the COVID-19 Death Toll by Considering the Time-Dependent Effects of Various Pandemic Restrictions. Mathematics, 2020, 8, 1628.	2.2	10
94	Using Systemability Function for Periodic Replacement Policy in Real Environments. Quality and Reliability Engineering International, 2015, 31, 617-633.	2.3	9
95	Modeling and analysis of software fault detectability and removability with time variant fault exposure ratio, fault removal efficiency, and change point. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 246-256.	0.7	9
96	A generalized multiple environmental factors software reliability model with stochastic fault detection process. Annals of Operations Research, 2022, 311, 525-546.	4.1	9
97	Mathematical Modeling the Time-Delay Interactions between Tumor Viruses and the Immune System with the Effects of Chemotherapy and Autoimmune Diseases. Mathematics, 2022, 10, 756.	2.2	9
98	A Generalized Logistic Software Reliability Growth Model. Opsearch, 2005, 42, 322-331.	1.8	8
99	Improving energy and power efficiency using NComputing and approaches for predicting reliability of complex computing systems. International Journal of Automation and Computing, 2010, 7, 153-159.	4.5	7
100	Optimal release policy under fuzzy environment. International Journal of Systems Assurance Engineering and Management, 2011, 2, 48-58.	2.4	7
101	Reliability management and computing. Annals of Operations Research, 2016, 244, 1-2.	4.1	7
102	Reliability and Cost-Benefit Analysis for Two-Stage Intervened Decision-Making Systems with Interdependent Decision Units. International Journal of Mathematical, Engineering and Management Sciences, 2019, 4, 531-541.	0.7	7
103	Optimal Opportunistic Maintenance of a k-out-of-n:G System. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 369-386.	0.6	6
104	Fuzzy optimization approach to component selection of fault-tolerant software system. Memetic Computing, 2014, 6, 49-59.	4.0	6
105	Cognitive data science methods and models for engineering applications. Soft Computing, 2019, 23, 9045-9048.	3.6	6
106	Modeling Reliability of Threshold Weighted Indecisive Voting Systems. IEEE Transactions on Computational Social Systems, 2020, 7, 35-41.	4.4	6
107	A Dynamic Model of Multiple Time-Delay Interactions between the Virus-Infected Cells and Bodyâ€™s Immune System with Autoimmune Diseases. Axioms, 2021, 10, 216.	1.9	6
108	Software Reliability Modeling Incorporating Fault Detection and Fault Correction Processes with Testing Coverage and Fault Amount Dependency. Mathematics, 2022, 10, 60.	2.2	6

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109	A confidence-based approach to reliability design considering correlated failures. Reliability Engineering and System Safety, 2017, 165, 102-114.	8.9	5
110	A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. IEEE Transactions on Computational Social Systems, 2019, 6, 365-376.	4.4	5
111	Opportunistic maintenance model for load sharing k-out-of-n systems with perfect PM and minimal repairs. Quality Engineering, 2022, 34, 205-214.	1.1	5
112	Condition-based maintenance for a degradation-shock dependence system under warranty. International Journal of Production Research, 2023, 61, 5212-5227.	7.5	5
113	Optimal number of components for a parallel system with competing failure modes. International Journal of Systems Science, 1992, 23, 449-455.	5.5	4
114	Optimal cost design of replicated data in distributed database systems. International Journal of Systems Science, 1998, 29, 795-804.	5.5	4
115	Two-stage weighted intervened decision systems. Life Cycle Reliability and Safety Engineering, 2017, 6, 69-77.	1.0	4
116	Optimal design of life testing cost model for Type-II censoring Weibull distribution lifetime units with respect to unknown parameters. International Journal of Systems Assurance Engineering and Management, 2017, 8, 28-32.	2.4	4
117	Toward the development of a conventional time series based web error forecasting framework. Empirical Software Engineering, 2018, 23, 570-644.	3.9	3
118	Parametric simulation analysis and reliability of escalator truss. Open Physics, 2018, 16, 938-942.	1.7	3
119	A two-stage intervened decision system with multi-state decision units and dynamic system configuration. Annals of Operations Research, 2022, 311, 255-277.	4.1	3
120	Preface: reliability modeling with applications based on big data. Annals of Operations Research, 2022, 311, 1-2.	4.1	3
121	Analyzing the relationship between the vitamin D deficiency and COVID-19 mortality rate and modeling the time-delay interactions between body's immune healthy cells, infected cells, and virus particles with the effect of vitamin D levels. Mathematical Biosciences and Engineering, 2022, 19, 8975-9004.	1.9	3
122	Modeling Security Surveillance Systems With State Dependent Inspection-Maintenance Strategy. IEEE Transactions on Computational Social Systems, 2023, 10, 2467-2478.	4.4	3
123	PERFORMABILITY AND COST ANALYSIS OF DEGRADABLE SYSTEMS. International Journal of Reliability, Quality and Safety Engineering, 1995, 02, 291-298.	0.6	2
124	Systemability: A New Reliability Function for Different Environments. Springer Series in Reliability Engineering, 2016, , 145-193.	0.5	2
125	Reliability and Maintenance of the Surveillance Systems Considering Two Dependent Processes. Springer Series in Reliability Engineering, 2016, , 277-306.	0.5	2
126	Self-adaptive stress accelerated life testing scheme. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2095-2103.	1.6	2

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127	Reliability inference for VGA adapter from dual suppliers based on contaminated typeâ€• intervalâ€•censored data. Quality and Reliability Engineering International, 2019, 35, 2297.	2.3	2
128	Convergence of deep machine learning and parallel computing environment for bioâ€•engineering applications. Concurrency Computation Practice and Experience, 2020, 32, e5424.	2.2	2
129	Dynamic Process in Threshold Weighted Indecisive-Voting Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 959-965.	4.4	2
130	A Random-Field-Environment-Based Multidimensional Time-Dependent Resilience Modeling of Complex Systems. IEEE Transactions on Computational Social Systems, 2021, 8, 1427-1437.	4.4	2
131	A new multivariate control chart for monitoring the quality of a process with the aid of auxiliary information. Journal of Statistical Computation and Simulation, 2022, 92, 645-666.	1.2	2
132	Predictive Modeling on the Number of Covid-19 Death Toll in the United States Considering the Effects of Coronavirus-Related Changes and Covid-19 Recovered Cases. International Journal of Mathematical, Engineering and Management Sciences, 2020, 5, 1140-1155.	0.7	2
133	On Stress-Strength Interval-System Reliability with Applications in Heart Conditions. International Journal of Mathematical, Engineering and Management Sciences, 2019, 5, 1-12.	0.7	2
134	Optimal design of majority redundant systems. International Journal of Systems Science, 1992, 23, 443-448.	5.5	1
135	Warranty system-cost analysis using quasi-renewal processes. Opsearch, 2008, 45, 263-274.	1.8	1
136	A condition-based maintenance model for periodically inspected systems subjected to competing failure processes. International Journal of Systems Assurance Engineering and Management, 2011, 2, 226-233.	2.4	1
137	A Median-Based Machine-Learning Approach for Predicting Random Sampling Bernoulli Distribution Parameter. Vietnam Journal of Computer Science, 2019, 06, 17-28.	1.2	1
138	Optimal (Ï„, T) opportunistic maintenance of a k-out-of-n:G system with imperfect PM and partial failure. Naval Research Logistics, 2000, 47, 223.	2.2	1
139	Promotional Warranty Policies: Analysis and Perspectives. , 2006, , 125-136.		1
140	Software Reliability Model Considering Time-delay Fault Removal. , 2008, , 291-307.		1
141	Software reliability and cost models with warranty and life cycle. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2023, 237, 166-179.	0.7	1
142	A software cost model with warranty cost, error removal times and risk costs. IIE Transactions, 1998, 30, 1135-1142.	2.1	0
143	Data-Driven Software Reliability and Availability Modeling and Prediction. Opsearch, 2008, 45, 335-350.	1.8	0
144	Analysis of Environmental Factors for Mobile Software Development Focused on Korean Companies. Mobile Information Systems, 2021, 2021, 1-18.	0.6	0

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145	Understanding Interactions Among Software Development Attributes and Release Planning Problem Through ISM and MAUT. Springer Series in Reliability Engineering, 2022, , 111-133.	0.5	0
146	Software Reliability Modeling and Methods: A State of the Art Review. Springer Series in Reliability Engineering, 2022, , 1-29.	0.5	0
147	Driving to safety: real-time danger spot and drowsiness monitoring system. Soft Computing, 2021, 25, 14479-14497.	3.6	0
148	HARDWARE-SOFTWARE RELIABILITY PERSPECTIVES. Series on Quality, Reliability and Engineering Statistics, 2001, , 41-72.	0.2	0
149	Statistical Models for Predicting Reliability of Software Systems in Random Environments. , 2006, , 507-520.		0
150	Unknown Inputs on Weighted Voting Systems With Feedforward-Feedback Control. IEEE Transactions on Computational Social Systems, 2022, , 1-7.	4.4	0