Hoang Pham

List of Publications by Year
in descending order

150 papers	5,728 citations	116194 36 h-index	100535 70 g-index
162 all docs	162 docs citations	162 times ranked	2313 citing authors

#	Article	IF	Citations
1	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.	0.6	1
2	Modeling Security Surveillance Systems With State Dependent Inspection-Maintenance Strategy. IEEE Transactions on Computational Social Systems, 2023, 10, 2467-2478.	3.2	3
3	Condition-based maintenance for a degradation-shock dependence system under warranty. International Journal of Production Research, 2023, 61, 5212-5227.	4.9	5
4	A two-stage intervened decision system with multi-state decision units and dynamic system configuration. Annals of Operations Research, 2022, 311, 255-277.	2.6	3
5	A generalized multiple environmental factors software reliability model with stochastic fault detection process. Annals of Operations Research, 2022, 311, 525-546.	2.6	9
6	Dynamic Process in Threshold Weighted Indecisive-Voting Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 959-965.	3.2	2
7	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.	0.7	2
8	Understanding Interactions Among Software Development Attributes and Release Planning Problem Through ISM and MAUT. Springer Series in Reliability Engineering, 2022, , 111-133.	0.3	0
9	Software Reliability Modeling and Methods: A State of the Art Review. Springer Series in Reliability Engineering, 2022, , 1-29.	0.3	0
10	A Software Reliability Model with Dependent Failure and Optimal Release Time. Symmetry, 2022, 14, 343.	1.1	15
11	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.	1.1	9
12	Preface: reliability modeling with applications based on big data. Annals of Operations Research, 2022, 311, 1-2.	2.6	3
13	Opportunistic maintenance model for load sharing k-out-of-n systems with perfect PM and minimal repairs. Quality Engineering, 2022, 34, 205-214.	0.7	5
14	Software Reliability Modeling Incorporating Fault Detection and Fault Correction Processes with Testing Coverage and Fault Amount Dependency. Mathematics, 2022, 10, 60.	1.1	6
15	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.	1.0	3
16	Unknown Inputs on Weighted Voting Systems With Feedforward-Feedback Control. IEEE Transactions on Computational Social Systems, 2022, , 1-7.	3.2	0
17	A Random-Field-Environment-Based Multidimensional Time-Dependent Resilience Modeling of Complex Systems. IEEE Transactions on Computational Social Systems, 2021, 8, 1427-1437.	3.2	2
18	Analysis of Environmental Factors for Mobile Software Development Focused on Korean Companies. Mobile Information Systems, 2021, 2021, 1-18.	0.4	0

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19	Modeling Software Fault-Detection and Fault-Correction Processes by Considering the Dependencies between Fault Amounts. Applied Sciences (Switzerland), 2021, 11, 6998.	1.3	13
20	A Dynamic Model of Multiple Time-Delay Interactions between the Virus-Infected Cells and Body's Immune System with Autoimmune Diseases. Axioms, 2021, 10, 216.	0.9	6
21	Driving to safety: real-time danger spot and drowsiness monitoring system. Soft Computing, 2021, 25, 14479-14497.	2.1	0
22	Convergence of deep machine learning and parallel computing environment for bio-engineering applications. Concurrency Computation Practice and Experience, 2020, 32, e5424.	1.4	2
23	A novel generalized logistic dependent model to predict the presence of breast cancer based on biomarkers. Concurrency Computation Practice and Experience, 2020, 32, e5467.	1.4	14
24	Modeling Reliability of Threshold Weighted Indecisive Voting Systems. IEEE Transactions on Computational Social Systems, 2020, 7, 35-41.	3.2	6
25	Estimating the COVID-19 Death Toll by Considering the Time-Dependent Effects of Various Pandemic Restrictions. Mathematics, 2020, 8, 1628.	1.1	10
26	Software Reliability Model with Dependent Failures and SPRT. Mathematics, 2020, 8, 1366.	1.1	26
27	On Estimating the Number of Deaths Related to Covid-19. Mathematics, 2020, 8, 655.	1.1	32
28	An Empirical Study of Factor Identification in Smart Health-Monitoring Wearable Device. IEEE Transactions on Computational Social Systems, 2020, 7, 404-416.	3.2	11
29	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.	0.4	2
30	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.	0.6	9
31	Cognitive data science methods and models for engineering applications. Soft Computing, 2019, 23, 9045-9048.	2.1	6
32	A Testing Coverage Model Based on NHPP Software Reliability Considering the Software Operating Environment and the Sensitivity Analysis. Mathematics, 2019, 7, 450.	1.1	21
33	A Generalized Software Reliability Growth Model With Consideration of the Uncertainty of Operating Environments. IEEE Access, 2019, 7, 84253-84267.	2.6	44
34	Reliability inference for VGA adapter from dual suppliers based on contaminated type-interval-censored data. Quality and Reliability Engineering International, 2019, 35, 2297.	1.4	2
35	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.	1.1	16
36	A Median-Based Machine-Learning Approach for Predicting Random Sampling Bernoulli Distribution Parameter. Vietnam Journal of Computer Science, 2019, 06, 17-28.	1.0	1

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37	Preface: reliability and quality management in stochastic systems. Annals of Operations Research, 2019, 277, 1-2.	2.6	29
38	A Two-Stage Intervened Decision System With State-Dependent Random Inspection Mechanisms. IEEE Transactions on Computational Social Systems, 2019, 6, 365-376.	3.2	5
39	A New Criterion for Model Selection. Mathematics, 2019, 7, 1215.	1.1	98
40	A Novel System Reliability Modeling of Hardware, Software, and Interactions of Hardware and Software. Mathematics, 2019, 7, 1049.	1.1	15
41	A generalized software reliability model with stochastic fault-detection rate. Annals of Operations Research, 2019, 277, 83-93.	2.6	24
42	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.	0.4	7
43	On Stress-Strength Interval-System Reliability with Applications in Heart Conditions. International Journal of Mathematical, Engineering and Management Sciences, 2019, 5, 1-12.	0.4	2
44	Reliability modeling of multiâ€state degraded repairable systems and its applications to automotive systems. Quality and Reliability Engineering International, 2018, 34, 459-474.	1.4	22
45	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
46	Entropy Based Software Reliability Analysis of Multi-Version Open Source Software. IEEE Transactions on Software Engineering, 2018, 44, 1207-1223.	4.3	42
47	Toward the development of a conventional time series based web error forecasting framework. Empirical Software Engineering, 2018, 23, 570-644.	3.0	3
48	Parametric simulation analysis and reliability of escalator truss. Open Physics, 2018, 16, 938-942.	0.8	3
49	A multi-release software reliability modeling for open source software incorporating dependent fault detection process. Annals of Operations Research, 2018, 269, 773-790.	2.6	40
50	A Software Reliability Model Considering the Syntax Error in Uncertainty Environment, Optimal Release Time, and Sensitivity Analysis. Applied Sciences (Switzerland), 2018, 8, 1483.	1.3	15
51	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.	1.3	15
52	Two-stage weighted intervened decision systems. Life Cycle Reliability and Safety Engineering, 2017, 6, 69-77.	0.6	4
53	Self-adaptive stress accelerated life testing scheme. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2095-2103.	0.8	2
54	A confidence-based approach to reliability design considering correlated failures. Reliability Engineering and System Safety, 2017, 165, 102-114.	5.1	5

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55	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.	0.8	27
56	Environmental factors analysis and comparison affecting software reliability in development of multi-release software. Journal of Systems and Software, 2017, 132, 72-84.	3.3	19
57	NHPP software reliability model considering the uncertainty of operating environments with imperfect debugging and testing coverage. Applied Mathematical Modelling, 2017, 51, 68-85.	2.2	89
58	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.	1.5	4
59	A Software Reliability Model with a Weibull Fault Detection Rate Function Subject to Operating Environments. Applied Sciences (Switzerland), 2017, 7, 983.	1.3	39
60	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.	1.3	22
61	A testing-coverage software reliability model considering fault removal efficiency and error generation. PLoS ONE, 2017, 12, e0181524.	1.1	42
62	Reliability management and computing. Annals of Operations Research, 2016, 244, 1-2.	2.6	7
63	A software reliability model with time-dependent fault detection and fault removal. Vietnam Journal of Computer Science, 2016, 3, 71-79.	1.0	28
64	A generalized fault-detection software reliability model subject to random operating environments. Vietnam Journal of Computer Science, 2016, 3, 145-150.	1.0	28
65	Reliability Analysis of the CNC System Based on Field Failure Data in Operating Environments. Quality and Reliability Engineering International, 2016, 32, 1955-1963.	1.4	18
66	Systemability: A New Reliability Function for Different Environments. Springer Series in Reliability Engineering, 2016, , 145-193.	0.3	2
67	Reliability and Maintenance of the Surveillance Systems Considering Two Dependent Processes. Springer Series in Reliability Engineering, 2016, , 277-306.	0.3	2
68	Using Systemability Function for Periodic Replacement Policy in Real Environments. Quality and Reliability Engineering International, 2015, 31, 617-633.	1.4	9
69	A comparison analysis of environmental factors affecting software reliability. Journal of Systems and Software, 2015, 109, 150-160.	3.3	27
70	A new software reliability model with Vtub-shaped fault-detection rate and the uncertainty of operating environments. Optimization, 2014, 63, 1481-1490.	1.0	68
71	A testing-coverage software reliability model with the uncertainty of operating environments. International Journal of Systems Science: Operations and Logistics, 2014, 1, 220-227.	2.0	20
72	Fuzzy optimization approach to component selection of fault-tolerant software system. Memetic Computing, 2014, 6, 49-59.	2.7	6

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73	Loglog fault-detection rate and testing coverage software reliability models subject to random environments. Vietnam Journal of Computer Science, 2014, 1, 39-45.	1.0	40
74	Optimal allocation of testing effort during testing and debugging phases: a control theoretic approach. International Journal of Systems Science, 2013, 44, 1639-1650.	3.7	39
75	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.	3.4	24
76	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.	2.7	15
77	Modeling the Dependent Competing Risks With Multiple Degradation Processes and Random Shock Using Time-Varying Copulas. IEEE Transactions on Reliability, 2012, 61, 13-22.	3.5	225
78	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.	3.4	29
79	Modeling U.S. Mortality and Risk-Cost Optimization on Life Expectancy. IEEE Transactions on Reliability, 2011, 60, 125-133.	3.5	17
80	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.	3.5	217
81	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.	1.5	28
82	Optimal release policy under fuzzy environment. International Journal of Systems Assurance Engineering and Management, 2011, 2, 48-58.	1.5	7
83	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.	1.5	1
84	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.	1.5	13
85	On the estimation of reliability of k-out-of-n systems. International Journal of Systems Assurance Engineering and Management, 2010, 1, 32-35.	1.5	22
86	Reliability models for systems with internal and external redundancy. International Journal of Systems Assurance Engineering and Management, 2010, 1, 362-369.	1.5	14
87	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
88	Altered quasi-renewal concepts for modeling renewable warranty costs with imperfect repairs. Mathematical and Computer Modelling, 2010, 52, 1435-1450.	2.0	26
89	Age replacement policy in a random environment using systemability. International Journal of Systems Science, 2010, 41, 1383-1397.	3.7	17
90	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.	3.3	11

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91	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.	3.3	24
92	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.	3.4	51
93	Maintenance for Industrial Systems. Springer Series in Reliability Engineering, 2010, , .	0.3	61
94	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.	3.4	46
95	Systemability function to optimisation reliability in random environment. International Journal of Mathematics in Operational Research, 2009, 1, 397.	0.1	19
96	Warranty system-cost analysis using quasi-renewal processes. Opsearch, 2008, 45, 263-274.	1.1	1
97	Data-Driven Software Reliability and Availability Modeling and Prediction. Opsearch, 2008, 45, 335-350.	1.1	0
98	Software Reliability Model Considering Time-delay Fault Removal. , 2008, , 291-307.		1
99	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.	3.4	14
100	On Recent Generalizations of the Weibull Distribution. IEEE Transactions on Reliability, 2007, 56, 454-458.	3.5	171
101	An imperfect-debugging fault-detection dependent-parameter software. International Journal of Automation and Computing, 2007, 4, 325-328.	4.5	46
102	Remote control and maintenance outsourcing networks and its applications in supply chain management. Journal of Operations Management, 2007, 25, 1275-1291.	3.3	51
103	Software field failure rate prediction before software deployment. Journal of Systems and Software, 2006, 79, 291-300.	3.3	64
104	Cost analysis on renewable full-service warranties for multi-component systems. European Journal of Operational Research, 2006, 168, 492-508.	3.5	41
105	Reliability Modeling of Hardware and Software Interactions, and Its Applications. IEEE Transactions on Reliability, 2006, 55, 571-577.	3.5	43
106	Statistical Models for Predicting Reliability of Software Systems in Random Environments. , 2006, , 507-520.		0
107	Promotional Warranty Policies: Analysis and Perspectives. , 2006, , 125-136.		1
108	A Generalized Logistic Software Reliability Growth Model. Opsearch, 2005, 42, 322-331.	1.1	8

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109	Modeling the reliability of threshold weighted voting systems. Reliability Engineering and System Safety, 2005, 87, 53-63.	5.1	25
110	A software cost model for quantifying the gain with considerations of random field environments. IEEE Transactions on Computers, 2004, 53, 380-384.	2.4	41
111	Commentary: steady-state series-system availability. IEEE Transactions on Reliability, 2003, 52, 146-147.	3.5	22
112	NHPP software reliability and cost models with testing coverage. European Journal of Operational Research, 2003, 145, 443-454.	3.5	189
113	Software reliability and cost models: Perspectives, comparison, and practice. European Journal of Operational Research, 2003, 149, 475-489.	3.5	97
114	Considering fault removal efficiency in software reliability assessment. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 114-120.	3.4	164
115	Recent Studies in Software Reliability Engineering. , 2003, , 285-302.		11
116	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.	3.3	12
117	A software-reliability growth model for N-version programming systems. IEEE Transactions on Reliability, 2002, 51, 311-321.	3.5	39
118	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.	0.9	54
119	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.	3.4	27
120	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.	3.4	46
121	On the Maximum Likelihood Estimates for the Goelâ€"Okumoto Software Reliability Model. American Statistician, 2001, 55, 219-222.	0.9	40
122	Exploratory analysis of environmental factors for enhancing the software reliability assessment. Journal of Systems and Software, 2001, 57, 73-78.	3.3	28
123	HARDWARE-SOFTWARE RELIABILITY PERSPECTIVES. Series on Quality, Reliability and Engineering Statistics, 2001, , 41-72.	0.2	0
124	Optimal (?,T) opportunistic maintenance of ak-out-of-n:G system with imperfect PM and partial failure. Naval Research Logistics, 2000, 47, 223-239.	1.4	91
125	An analysis of factors affecting software reliability. Journal of Systems and Software, 2000, 50, 43-56.	3.3	123
126	Optimal (Ï„, T) opportunistic maintenance of a k-out-of-n:G system with imperfect PM and partial failure. , 2000, 47, 223.		1

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127	A methodology for priority setting with application to software development process. European Journal of Operational Research, 1999, 118, 375-389.	3.5	75
128	Software release policies with gain in reliability justifying the costs. Annals of Software Engineering, 1999, 8, 147-166.	0.5	36
129	A general imperfect-software-debugging model with S-shaped fault-detection rate. IEEE Transactions on Reliability, 1999, 48, 169-175.	3.5	222
130	A software cost model with warranty and risk costs. IEEE Transactions on Computers, 1999, 48, 71-75.	2.4	146
131	A software cost model with warranty cost, error removal times and risk costs. IIE Transactions, 1998, 30, 1135-1142.	2.1	0
132	A software cost model with error removal times and risk costs. International Journal of Systems Science, 1998, 29, 435-442.	3.7	36
133	Optimal cost design of replicated data in distributed database systems. International Journal of Systems Science, 1998, 29, 795-804.	3.7	4
134	A software cost model with warranty cost, error removal times and risk costs. IIE Transactions, 1998, 30, 1135-1142.	2.1	29
135	An NHPP Software Reliability Model and Its Comparison. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 269-282.	0.4	146
136	Optimal Opportunistic Maintenance of a k-out-of-n:G System. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 369-386.	0.4	6
137	Reliability of decision making in human-organizations. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1997, 27, 543-549.	3.4	18
138	A quasi renewal process and its applications in imperfect maintenance. International Journal of Systems Science, 1996, 27, 1055-1062.	3.7	116
139	Reliability and MTTF prediction of K-out-of-n complex systems with components subjected to multiple stages of degradation. International Journal of Systems Science, 1996, 27, 995-1000.	3.7	26
140	Imperfect maintenance. European Journal of Operational Research, 1996, 94, 425-438.	3.5	707
141	OPTIMAL AGE-DEPENDENT PREVENTIVE MAINTENANCE POLICIES WITH IMPERFECT MAINTENANCE. International Journal of Reliability, Quality and Safety Engineering, 1996, 03, 119-135.	0.4	31
142	Optimal maintenance policies for several imperfect repair models. International Journal of Systems Science, 1996, 27, 543-549.	3.7	32
143	A software cost model with imperfect debugging, random life cycle and penalty cost. International Journal of Systems Science, 1996, 27, 455-463.	3.7	115
144	PERFORMABILITY AND COST ANALYSIS OF DEGRADABLE SYSTEMS. International Journal of Reliability, Quality and Safety Engineering, 1995, 02, 291-298.	0.4	2

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145	Optimal design of majority redundant systems. International Journal of Systems Science, 1992, 23, 443-448.	3.7	1
146	Optimal number of components for a parallel system with competing failure modes. International Journal of Systems Science, 1992, 23, 449-455.	3.7	4
147	Reliability analysis of a high voltage system with dependent failures and imperfect coverage. Reliability Engineering and System Safety, 1992, 37, 25-28.	5.1	44
148	Optimal system size for k-out-of-n systems with competing failure modes. Mathematical and Computer Modelling, 1991, 15, 77-81.	2.0	18
149	Cost-effective condition-based maintenance using markov decision processes. , 0, , .		36
150	A software reliability model incorporating martingale process with gamma-distributed environmental factors. Annals of Operations Research, 0, , 1.	2.6	16