

Shigeru Yamada

List of Publications by Year in descending order

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114
papers

638
citations

840776

11
h-index

888059

17
g-index

115
all docs

115
docs citations

115
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation analysis for reliability assessment based on stochastic differential equation modelling for open source software. International Journal of Systems Science, 2009, 40, 429-438.	5.5	50
2	Parameter estimation of discrete logistic curve models for software reliability assessment. Japan Journal of Industrial and Applied Mathematics, 2002, 19, 39-53.	0.9	27
3	Optimal software release policy with change-point. , 2008, , .		25
4	Bivariate change-point modeling for software reliability assessment with uncertainty of testing-environment factor. Annals of Operations Research, 2016, 244, 209-220.	4.1	22
5	A software reliability growth model for a distributed development environment. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 1 0.784314 rgBT #0verloc	1.0	20
6	Economic Impact of Software Patching and Optimal Release Scheduling. Quality and Reliability Engineering International, 2017, 33, 149-157.	2.3	21
7	A Method of User-oriented Reliability Assessment for Open Source Software and Its Applications. , 2006, , .		19
8	Two-Dimensional Software Reliability Assessment with Testing-Coverage. , 2008, , .		18
9	Two-dimensional software reliability measurement technologies. , 2009, , .		18
10	TWO-DIMENSIONAL CHANGE-POINT MODELING FOR SOFTWARE RELIABILITY ASSESSMENT. International Journal of Reliability, Quality and Safety Engineering, 2010, 17, 531-542.	0.6	16
11	Reliability assessment based on hazard rate model for an embedded OSS portingâ€phase. Software Testing Verification and Reliability, 2013, 23, 77-88.	2.0	16
12	Software reliability assessment and optimal version-upgrade problem for Open Source Software. , 2007, , .		14
13	A UNIFIED APPROACH FOR DEVELOPING SOFTWARE RELIABILITY GROWTH MODEL USING INFINITE SERVER QUEUEING MODEL. International Journal of Reliability, Quality and Safety Engineering, 2010, 17, 401-424.	0.6	14
14	Software reliability measurement with effect of change-point: modeling and application. International Journal of Systems Assurance Engineering and Management, 2011, 2, 155-162.	2.4	14
15	Reliability analysis based on jump diffusion models for an open source cloud computing. , 2012, , .		13
16	Software Reliability Growth Model Based on Stochastic Differential Equations for Open Source Software. , 2007, , .		12
17	Software Reliability Assessment with Multiple Changes of Testing-Environment. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 2031-2041.	0.3	12
18	EXTENDED HAZARD RATE MODELS FOR SOFTWARE RELIABILITY ASSESSMENT WITH EFFECT AT CHANGE-POINT. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1350009.	0.6	11

#	ARTICLE	IF	CITATIONS
19	OSS Project Stability Assessment Support Tool Considering EVM Based on Wiener Process Models. Applied System Innovation, 2019, 2, 1.	4.6	11
20	Multi-Attribute Utility Theory for Estimation of Optimal Release Time and Change-Point. International Journal of Reliability, Quality and Safety Engineering, 2015, 22, 1550019.	0.6	10
21	Stochastic software safety/reliability measurement and its application. Annals of Software Engineering, 1999, 8, 123-145.	0.5	9
22	OPTIMAL PRICE AND RELEASE TIME OF A SOFTWARE UNDER WARRANTY. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1340004.	0.6	9
23	An All-Stage Truncated Multiple Change Point Model for Software Reliability Assessment. International Journal of Reliability, Quality and Safety Engineering, 2015, 22, 1550017.	0.6	9
24	A Method of Statistical Process Control for Successful Open Source Software Projects and Its Application to Determining the Development Period. International Journal of Reliability, Quality and Safety Engineering, 2016, 23, 1650018.	0.6	9
25	Markovian Software Reliability Modeling with Change-Point. International Journal of Reliability, Quality and Safety Engineering, 2018, 25, 1850009.	0.6	9
26	A Method of Calculating Safety Integrity Level for IEC 61508 Conformity Software. , 2011, , .		8
27	Reliability modeling and analysis for open source cloud computing. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 179-186.	0.7	8
28	A Method of Reliability Assessment Based on Neural Network and Fault Data Clustering for Cloud with Big Data. , 2015, , .		8
29	Software Reliability Model Selection Based on Deep Learning. , 2016, , .		8
30	Software reliability growth models incorporating imperfect debugging with introduced faults. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq0 0 0 rgBT /Overclock 10 Tf 50 297 T		8
31	A software reliability assessment method based on neural networks for distributed development environment. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2003, 86, 13-20.	0.1	7
32	Product quality prediction based on software process data with development-period estimation. International Journal of Systems Assurance Engineering and Management, 2010, 1, 72-76.	2.4	7
33	Integrable difference equations for software reliability assessment and their applications. International Journal of Systems Assurance Engineering and Management, 2010, 1, 5-10.	2.4	7
34	STOCHASTIC DIFFERENTIAL EQUATION BASED SRGM FOR ERRORS OF DIFFERENT SEVERITY WITH TESTING-EFFORT. International Journal of Reliability, Quality and Safety Engineering, 2010, 17, 179-197.	0.6	7
35	Software reliability growth modeling based on testing-skill characteristics: Model and application. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq1 1 0.784314 rgBT /Overclock 10 Tf 5		7
36	Flexible Software Reliability Growth Models for Distributed Systems. Opsearch, 2005, 42, 378-398.	1.8	6

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37	A Method of Reliability Assessment Based on Deterministic Chaos Theory for an Open Source Software. , 2008, , .		6
38	Reliability analysis methods for an open source software with their comparison of goodness-of-fit. , 2009, , .		6
39	Toward Practical Software Reliability Assessment with Change-Point Based on Hazard Rate Models. , 2013, , .		6
40	Multi-Dimensional Software Tool for OSS Project Management Considering Cloud with Big Data. International Journal of Reliability, Quality and Safety Engineering, 2018, 25, 1850014.	0.6	6
41	MARKOVIAN AVAILABILITY MEASUREMENT WITH TWO TYPES OF SOFTWARE FAILURES DURING THE OPERATION PHASE. International Journal of Reliability, Quality and Safety Engineering, 1999, 06, 43-56.	0.6	5
42	Stochastic performability measurement for software system with random performance degradation and field-oriented restoration. International Journal of Systems Assurance Engineering and Management, 2010, 1, 330-339.	2.4	5
43	A TWO-RESOURCE ALLOCATION PROBLEM ACCORDING TO AN EXPONENTIAL OBJECTIVE: OPTIMUM DISTRIBUTION OF SEARCHING EFFORT. International Journal of Reliability, Quality and Safety Engineering, 1994, 01, 135-146.	0.6	4
44	Quantitative assessment models for software safety/reliability. Electronics and Communications in Japan, 1998, 81, 33-43.	0.2	4
45	Software reliability assessment tool based on object-oriented analysis and its application. Annals of Software Engineering, 1999, 8, 223-238.	0.5	4
46	Software process improvement by process monitoring and quality evaluation activities. International Journal of Systems Assurance Engineering and Management, 2010, 1, 284-292.	2.4	4
47	Dependability analysis and optimal maintenance problem for open source cloud computing. , 2012, , .		4
48	Interval estimations of software reliability and optimal release time based on better bootstrap confidence intervals. , 2013, , .		4
49	Reliability analysis based on network traffic for a mobile computing. , 2013, , .		4
50	Software quality analysis for agile development. , 2015, , .		4
51	Fault Identification Tool Based on Deep Learning for Fault Big Data. , 2016, , .		4
52	Bayesian Optimal Release Time Based on Inflection S-Shaped Software Reliability Growth Model. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 1485-1493.	0.3	4
53	A Software Reliability Growth Model Based on Stochastic Differential Equations for Distributed Development Environment. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2001, 2001, 155-160.	0.2	4
54	A testing-domain-dependent software reliability growth model for imperfect debugging environment and its evaluation of goodness-of-fit. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 2003, 86, 11-18.	0.1	3

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55	Performability Modeling for Software System with Performance Degradation and Reliability Growth. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 1563-1571.	0.3	3
56	Change-point modeling for software reliability assessment depending on two-types of reliability growth factors. , 2010, , .		3
57	Nonparametric bootstrapping interval estimations for software release planning with reliability objective. , 2013, , .		3
58	QUANTITATIVE ASSESSMENT FOR SOFTWARE SAFETY INTEGRITY LEVEL WITH FUNCTIONAL SAFETY STANDARDS AND RISK COSTS. International Journal of Reliability, Quality and Safety Engineering, 2014, 21, 1450030.	0.6	3
59	OPTIMIZATION ANALYSIS BASED ON STOCHASTIC DIFFERENTIAL EQUATION MODEL FOR CLOUD COMPUTING. International Journal of Reliability, Quality and Safety Engineering, 2014, 21, 1450020.	0.6	3
60	Reliability analysis based on three-dimensional stochastic differential equation for big data on cloud computing. , 2014, , .		3
61	A Software Testing-Progress Evaluation Model Based on a Digestion Process of Test-Cases. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 229-239.	0.6	2
62	Markovian Availability Measurement and Assesment for Hardware-Software System. International Journal of Reliability, Quality and Safety Engineering, 1997, 04, 257-268.	0.6	2
63	MARKOVIAN MODELING FOR SOFTWARE AVAILABILITY ANALYSIS UNDER INTERMITTENT USE. International Journal of Reliability, Quality and Safety Engineering, 2001, 08, 249-258.	0.6	2
64	A quality engineering approach to human factors affecting software reliability in design process. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq0 0 0 rgBT /Overlack 10 T 50 377 T		2
65	Comparison of software reliability assessment methods based on deterministic chaos theory for an open source software. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
66	Quantitative Software Quality/Reliability Prediction Based on Project Management Data for Waterfall and Agile Development Paradigms. Opsearch, 2008, 45, 391-404.	1.8	2
67	AN EMBEDDED OSS RELIABILITY AND OPTIMIZATION ANALYSIS INCORPORATING IMPERFECT DEBUGGING. International Journal of Reliability, Quality and Safety Engineering, 2009, 16, 371-384.	0.6	2
68	Performance evaluation of reliability assessment method based on stochastic differential equation model for a large-scale open source solution. International Journal of Systems Assurance Engineering and Management, 2010, 1, 324-329.	2.4	2
69	MAXIMUM ENTROPY AND DISCRETE TIME SOFTWARE RELIABILITY GROWTH MODELS. International Journal of Reliability, Quality and Safety Engineering, 2010, 17, 587-601.	0.6	2
70	Software reliability analysis with optimal release problems based on hazard rate model for an embedded OSS. , 2010, , .		2
71	A Bootstrap Method for Software Reliability Assessment Based on a Discretized NHPP Model. , 2012, , .		2
72	Defect Root-Cause Analysis and 1+n Procedure technique to improve software quality. International Journal of Systems Assurance Engineering and Management, 2012, 3, 111-121.	2.4	2

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73	Bootstrap Interval Estimation Methods for Cost-Optimal Software Release Planning. , 2013, , .		2
74	Software hazard rate modeling with multiple change-point occurrences. , 2014, , .		2
75	Comparison of big data analyses for reliable open source software. , 2016, , .		2
76	Prediction of Fault Fix Time Transition in Large-Scale Open Source Project Data. Data, 2019, 4, 109.	2.3	2
77	Efficiency Evaluation of Software Faults Correction Based on Queuing Simulation. Mathematics, 2022, 10, 1438.	2.2	2
78	Prototype of 3D Reliability Assessment Tool Based on Deep Learning for Edge OSS Computing. Mathematics, 2022, 10, 1572.	2.2	2
79	A Software Reliability Assessment Tool for Distributed Software Development Projects. Opsearch, 2005, 42, 297-309.	1.8	1
80	PERFORMANCE ANALYSIS BASED ON THE NUMBER OF DEBUGGINGS FOR SOFTWARE SYSTEM WITH PROCESSING TIME LIMIT USING RELIABILITY GROWTH MODEL. Asia-Pacific Journal of Operational Research, 2008, 25, 765-780.	1.3	1
81	Service-Oriented Maintainability Modeling and Analysis for a Cloud Computing. , 2013, , .		1
82	Simulation-based interval estimation approach in software reliability assessment. , 2016, , .		1
83	Dependability Analysis Tool Considering the Optimal Data Partitioning in a Mobile Cloud. , 2017, , 45-60.		1
84	On Bayesian inference of software reliability measurement. , 2017, , .		1
85	Software reliability modeling with imperfect debugging and change of test environment. , 2017, , .		1
86	A Method of Parameter Estimation in Flexible Jump Diffusion Process Models for Open Source Maintenance Effort Management. , 2019, , .		1
87	Large Scale Fault Data Analysis and OSS Reliability Assessment Based on Quantification Method of the First Type. Machine Learning and Knowledge Extraction, 2020, 2, 436-452.	5.0	1
88	Application of Software Reliability Model for Safety Assessment of E/E/PE Safety-Related Software. International Journal of Mathematical, Engineering and Management Sciences, 2021, 6, 1044-1054.	0.7	1
89	Mathematical Approaches in Functional Safety Assessment for E/E/PE Safety-Related Software. International Journal of Reliability, Quality and Safety Engineering, 2022, 29, .	0.6	1
90	A USER-ORIENTED RELIABILITY ASSESSMENT METHOD FOR OPEN SOURCE SOFTWARE. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
91	PERFORMANCE EVALUATION FOR MULTI-TASK PROCESSING SYSTEM WITH SOFTWARE AVAILABILITY MODEL. , 2004, , .		1
92	Chapter 10: Two-Dimensional Software Reliability Growth Models. , 2014, , 179-194.		1
93	Comparison of Stabilities for Open Source Project. , 2021, , .		1
94	Optimal initial production control period based on a quality growth model. Quality and Reliability Engineering International, 1999, 15, 229-233.	2.3	0
95	Imperfect debugging models with two kinds of software hazard rate and their Bayesian formulation. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq1 1 0.784314 r0BT /Overlock 10 T5		0
96	An Empirical Study of Stochastic Differential Equation Models Based on Component Importance Level for Open Source Software. Opsearch, 2008, 45, 303-316.	1.8	0
97	NONPARAMETRIC BOOTSTRAP INTERVAL ESTIMATION OF SOFTWARE RELIABILITY AND ITS APPLICATION TO AN OPTIMAL RELEASE PROBLEM BASED ON A DISCRETIZED MODEL. International Journal of Reliability, Quality and Safety Engineering, 2013, 20, 1350019.	0.6	0
98	A method of reliability assessment based on hazard rate by clustering approach for cloud computing with big data. , 2015, , .		0
99	Statistical process control for OSS projects and optimal release policies. , 2016, , .		0
100	On statistical models for predicting software quality/reliability: generalized linear and linear mixed modeling. Life Cycle Reliability and Safety Engineering, 2017, 6, 15-21.	1.0	0
101	Interval Estimation of Software Reliability and Shipping Time Based on a Discretized NHPP Model. , 2017, , 61-78.		0
102	Elementary software reliability growth modeling. , 2017, , .		0
103	Estimation of Target Failure Measures for E/E/PE Safety-Related Software. , 2019, , .		0
104	A Method of Fault Identification Considering High Fix Priority in Open Source Project. , 2019, , .		0
105	Markovian Analysis for Software Reliability / Availability Measurement Considering Continuous Use. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2001, 2001, 149-154.	0.2	0
106	Hybrid Estimation Methods for a Software Reliability Growth Model Based on Stochastic Differential Equations for Distributed Development Environment. Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and Its Applications, 2002, 2002, 41-46.	0.2	0
107	OPTIMAL RELEASE PROBLEM BASED ON THE NUMBER OF DEBUGGINGS WITH SOFTWARE SAFETY MODEL. , 2004, , .		0
108	SOFTWARE RELIABILITY MODELING FOR INTEGRATION TESTING IN DISTRIBUTED DEVELOPMENT ENVIRONMENT. , 2004, , .		0

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109	QUALITY ENGINEERING ANALYSIS FOR HUMAN FACTORS AFFECTING SOFTWARE RELIABILITY IN THE DESIGN REVIEW PROCESS WITH CLASSIFICATION OF DETECTED FAULTS. , 2004, , .		0
110	SIMULATION METHODS FOR PARAMETER ESTIMATION OF INFLECTION S-SHAPED SOFTWARE RELIABILITY GROWTH MODEL. , 2006, , .		0
111	FLEXIBLE STOCHASTIC DIFFERENTIAL EQUATION MODELING FOR OPEN-SOURCE-SOFTWARE RELIABILITY ASSESSMENT. , 2009, , 285-300.		0
112	SOFTWARE RELIABILITY ASSESSMENT WITH 2-TYPES IMPERFECT DEBUGGING ACTIVITIES. , 2009, , 271-283.		0
113	Markovian Modeling for Operational Software Reliability Evaluation with Systemability. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2012, E95.A, 1469-1477.	0.3	0
114	Researches on Software Reliability: Modeling Approaches. Ieice Ess Fundamentals Review, 2018, 12, 38-50.	0.1	0