Hareton Kam Nang Leung

List of Publications by Year
in descending order

64 papers	2,499 citations	304743 22 h-index	289244 40 g-index
64 all docs	64 docs citations	64 times ranked	1660 citing authors

#	Article	IF	Citations
1	How C++ Templates Are Used for Generic Programming. ACM Transactions on Software Engineering and Methodology, 2020, 29, 1-49.	6.0	3
2	Understanding the value of considering client usage context in package cohesion for fault-proneness prediction. Automated Software Engineering, 2017, 24, 393-453.	2.9	14
3	ComboRT: A New Approach for Generating Regression Test Cases for Evolving Programs. International Journal of Software Engineering and Knowledge Engineering, 2016, 26, 1001-1026.	0.8	7
4	Effort-aware just-in-time defect prediction: simple unsupervised models could be better than supervised models. , 2016, , .		155
5	A new method to encode calling contexts with recursions. Science China Information Sciences, 2016, 59, 1.	4.3	0
6	A Discrete Particle Swarm Optimization for Covering Array Generation. IEEE Transactions on Evolutionary Computation, 2015, 19, 575-591.	10.0	85
7	Combinatorial testing, random testing, and adaptive random testing for detecting interaction triggered failures. Information and Software Technology, 2015, 62, 198-213.	4.4	34
8	MSR4SM: Using topic models to effectively mining software repositories for software maintenance tasks. Information and Software Technology, 2015, 66, 1-12.	4.4	43
9	Are Slice-Based Cohesion Metrics Actually Useful in Effort-Aware Post-Release Fault-Proneness Prediction? An Empirical Study. IEEE Transactions on Software Engineering, 2015, 41, 331-357.	5.6	52
10	A Novel QoS Monitoring Approach Sensitive to Environmental Factors. , 2015, , .		7
11	Regression Testing of Web Service: A Systematic Mapping Study. ACM Computing Surveys, 2015, 47, 1-46.	23.0	27
12	A Usability Study of an Educational Groupware System: Supporting Awareness for Collaboration. Journal of Educational Computing Research, 2014, 50, 379-402.	5.5	5
13	Friend recommendation for weight loss app. , 2014, , .		1
14	An in-depth study of the potentially confounding effect of class size in fault prediction. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-51.	6.0	54
15	SRM: a staged reliability model for Web service. Innovations in Systems and Software Engineering, 2014, 10, 137-154.	2.1	2
16	Source code size estimation approaches for object-oriented systems from UML class diagrams: A comparative study. Information and Software Technology, 2014, 56, 220-237.	4.4	17
17	Profiling selected paths with loops. Science China Information Sciences, 2014, 57, 1-15.	4.3	4
18	Change impact analysis and changeability assessment for a change proposal: An empirical study â˜†â˜†. Journal of Systems and Software, 2014, 96, 51-60.	4.5	7

#	ARTICLE	IF	CITATIONS
19	Bayesian Prediction of Fault-Proneness of Agile-Developed Object-Oriented System. Lecture Notes in Business Information Processing, 2014, , 209-225.	1.0	5
20	Strategies for Scheduling Risk Mitigation in Software Project Management. Communications in Computer and Information Science, 2014, , 3-23.	0.5	0
21	A survey of code‐based change impact analysis techniques. Software Testing Verification and Reliability, 2013, 23, 613-646.	2.0	132
22	Verifying the Concurrent Properties in BPEL Based Web Service Composition Process. IEEE Transactions on Network and Service Management, 2013, 10, 410-424.	4.9	12
23	Using water wave propagation phenomenon to study software change impact analysis. Advances in Engineering Software, 2013, 58, 45-53.	3.8	4
24	A Case Study of Adaptive Combinatorial Testing. , 2013, , .		1
25	Empirically Identifying the Best Greedy Algorithm for Covering Array Generation. , 2013, , .		5
26	Bayesian Probabilistic Monitor: A New and Efficient Probabilistic Monitoring Approach Based on Bayesian Statistics. , 2013, , .		8
27	Game-Based Monitors for Scenario-Based Specification. , 2013, , .		0
28	Adaptive Combinatorial Testing. , 2013, , .		12
29	WAVE-CIA. , 2013, , .		3
30	Web services property sequence chart monitor: a tool chain for monitoring BPEL‐based web service composition with scenario‐based specifications. IET Software, 2013, 7, 222-248.	2.1	7
31	A Stochastic Simulation Model for Risk Management Process. , 2012, , .		5
32	Unlocking the secret of 3D content for education. , 2012, , .		3
33	Search Based Combinatorial Testing. , 2012, , .		8
34	Predicting Failures in Dynamic Composite Services with Proactive Monitoring Technique. , 2012, , .		2
35	Viewpoint-Based Risk Assessment and Prioritization. , 2012, , .		1
36	An Integrated Risk Analysis Method Using Spatial Interpolation. , 2012, , .		1

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37	Combining concept lattice with call graph for impact analysis. Advances in Engineering Software, 2012, 53, 1-13.	3.8	18
38	An in-depth investigation into the relationships between structural metrics and unit testability in object-oriented systems. Science China Information Sciences, 2012, 55, 2800-2815.	4.3	20
39	A Bayesian Method to Mine Spatial Data Sets to Evaluate the Vulnerability of Human Beings to Catastrophic Risk. Risk Analysis, 2012, 32, 1072-1092.	2.7	20
40	Automatic test case selection for regression testing of composite service based on extensible BPEL flow graph. Journal of Systems and Software, 2012, 85, 1300-1324.	4.5	41
41	Profiling all paths: A new profiling technique for both cyclic and acyclic paths. Journal of Systems and Software, 2012, 85, 1558-1576.	4.5	13
42	The ability of object-oriented metrics to predict change-proneness: a meta-analysis. Empirical Software Engineering, 2012, 17, 200-242.	3.9	73
43	Mining Static Code Metrics for a Robust Prediction of Software Defect-Proneness. , 2011, , .		10
44	A survey of combinatorial testing. ACM Computing Surveys, 2011, 43, 1-29.	23.0	502
45	A Risk Management Methodology for Project Risk Dependencies. IEEE Transactions on Software Engineering, 2011, 37, 635-648.	5.6	77
46	The Minimal Failure-Causing Schema of Combinatorial Testing. ACM Transactions on Software Engineering and Methodology, 2011, 20, 1-38.	6.0	49
47	Improving Risk Management with Modeling Time Element. , 2011, , .		3
48	On the ability of complexity metrics to predict fault-prone classes in object-oriented systems. Journal of Systems and Software, 2010, 83, 660-674.	4.5	105
49	Assessment of Catastrophic Risk Using Bayesian Network Constructed from Domain Knowledge and Spatial Data. Risk Analysis, 2010, 30, 1157-1175.	2.7	90
50	Variants of Risk and Opportunity. , 2010, , .		4
51	Using spatial analysis and Bayesian network to model the vulnerability and make insurance pricing of catastrophic risk. International Journal of Geographical Information Science, 2010, 24, 1759-1784.	4.8	30
52	A knowledgeâ€based similarity classifier to stratify sample units to improve the estimation precision. International Journal of Remote Sensing, 2009, 30, 1207-1234.	2.9	7
53	Notice of Retraction: Measuring Risks within a Program Consisting of Multiple Interdependent Projects. , 2009, , .		2
54	Using the Number of Faults to Improve Fault-Proneness Prediction of the Probability Models. , 2009, , .		3

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55	A Study of a Loosely-Coupled Groupware System for Supporting Collaboration and Coordination. Lecture Notes in Computer Science, 2008, , 58-67.	1.3	0
56	MNav: A Markov Model-Based Web Site Navigability Measure. IEEE Transactions on Software Engineering, 2007, 33, 869-890.	5.6	30
57	Automated support of software quality improvement. International Journal of Quality and Reliability Management, 2007, 24, 230-243.	2.0	8
58	Predicting object-oriented software maintainability using multivariate adaptive regression splines. Journal of Systems and Software, 2007, 80, 1349-1361.	4.5	183
59	Empirical Analysis of Object-Oriented Design Metrics for Predicting High and Low Severity Faults. IEEE Transactions on Software Engineering, 2006, 32, 771-789.	5.6	268
60	On the efficiency of domain-based COTS product selection method. Information and Software Technology, 2002, 44, 703-715.	4.4	35
61	Estimating Maintenance Effort by Analogy. Empirical Software Engineering, 2002, 7, 157-175.	3.9	39
62	Quality metrics for intranet applications. Information and Management, 2001, 38, 137-152.	6.5	61
63	Costs and benefits of ISO 9000 series: a practical study. International Journal of Quality and Reliability Management, 1999, 16, 675-691.	2.0	82
64	CMM FastTrack. , 0, , 158-169.		0