Tracy Hall

List of Publications by Year
in descending order

90	4,251	218677	214800
papers	citations	26	47
		h-index	g-index

92	92	92	2259
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	How Software Developers Mitigate Their Errors When Developing Code. IEEE Transactions on Software Engineering, 2022, 48, 1853-1867.	5.6	12
2	On The Introduction of Automatic Program Repair in Bloomberg. IEEE Software, 2021, 38, 43-51.	1.8	26
3	Using Machine Learning toÂRecognise Novice andÂExpert Programmers. Lecture Notes in Computer Science, 2021, , 199-206.	1.3	0
4	Expanding Fix Patterns to Enable Automatic Program Repair. , 2021, , .		4
5	Exploiting fault localisation for efficient program repair. , 2020, , .		1
6	Zones of Pain: Visualising theÂRelationship Between Software Architecture and Defects. Communications in Computer and Information Science, 2020, , 135-143.	0.5	0
7	Which Software Faults Are Tests Not Detecting?. , 2020, , .		1
8	Fault-insertion and fault-fixing: analysing developer activity over time. , 2020, , .		0
9	Automatically identifying code features for software defect prediction: Using AST N-grams. Information and Software Technology, 2019, 106, 142-160.	4.4	60
10	The relationship between evolutionary coupling and defects in large industrial software (journal-first abstract). , 2018, , .		0
11	Reproducibility and replicability of software defect prediction studies. Information and Software Technology, 2018, 99, 148-163.	4.4	20
12	Software defect prediction: do different classifiers find the same defects?. Software Quality Journal, 2018, 26, 525-552.	2.2	122
13	Authorsâ€™ Reply to â€œComments on â€˜Researcher Bias: The Use of Machine Learning in Software Defect Predictionâ€™â€•. IEEE Transactions on Software Engineering, 2018, 44, 1129-1131.	5.6	7
14	Code Cleaning for Software Defect Prediction: A Cautionary Tale. , 2018, , .		0
15	How Effectively Is Defective Code Actually Tested?. , 2018, , .		8
16	Mining Communication Patterns in Software Development. , 2018, , .		22
17	The relationship between evolutionary coupling and defects in large industrial software. Journal of Software: Evolution and Process, 2017, 29, e1842.	1.6	23
18	Introduction to the Special Section from the Empirical Track of the XP2016 conference. Information and Software Technology, 2017, 92, 222.	4.4	0

#	Article	IF	Citations
19	How Good Are My Tests?. , 2017, , .		23
20	Evolutionary coupling measurement: Making sense of the current chaos. Science of Computer Programming, 2017, 135, 4-19.	1.9	8
21	Getting Defect Prediction Into Industrial Practice: the ELFF Tool. , 2017, , .		5
22	Assert Use and Defectiveness in Industrial Code. , 2017, , .		2
23	Building an Ensemble for Software Defect Prediction Based on Diversity Selection. , 2016, , .		30
24	The jinx on the NASA software defect data sets. , 2016, , .		31
25	Mutation-aware fault prediction. , 2016, , .		34
26	So You Need More Method Level Datasets for Your Software Defect Prediction?. , 2016, , .		12
27	What is the Impact of Imbalance on Software Defect Prediction Performance?. , 2015, , .		23
28	Different Classifiers Find Different Defects Although With Different Level of Consistency. , 2015, , .		9
29	DConfusion: a technique to allow cross study performance evaluation of fault prediction studies. Automated Software Engineering, 2014, 21, 287-313.	2.9	21
30	Factors that motivate software engineering teams: A four country empirical study. Journal of Systems and Software, 2014, 92, 115-127.	4.5	51
31	Researcher Bias: The Use of Machine Learning in Software Defect Prediction. IEEE Transactions on Software Engineering, 2014, 40, 603-616.	5.6	252
32	Some Code Smells Have a Significant but Small Effect on Faults. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-39.	6.0	208
33	Filling the Gaps of Development Logs and Bug Issue Data. , 2014, , .		9
34	The inconsistent measurement of Message Chains. , 2013, , .		5
35	Using experimental games to understand communication and trust in Agile software teams. , 2013, , .		4
36	Comparing the performance of fault prediction models which report multiple performance measures. , 2012, , .		36

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37	SLuRp. , 2012, , .		25
38	A Systematic Literature Review on Fault Prediction Performance in Software Engineering. IEEE Transactions on Software Engineering, 2012, 38, 1276-1304.	5.6	801
39	The State of Machine Learning Methodology in Software Fault Prediction. , 2012, , .		16
40	Prioritising Refactoring Using Code Bad Smells. , 2011, , .		14
41	Developing Fault-Prediction Models: What the Research Can Show Industry. IEEE Software, 2011, 28, 96-99.	1.8	22
42	Code Bad Smells: a review of current knowledge. Journal of Software: Evolution and Process, 2011, 23, 179-202.	1.1	137
43	The impact of media selection on stakeholder communication in agile global software development. , 2011, , .		5
44	Program slicing-based cohesion measurement. , 2011, , .		0
45	Software engineering group work. , 2010, , .		6
46	Evaluating Three Approaches to Extracting Fault Data from Software Change Repositories. Lecture Notes in Computer Science, 2010, , 107-115.	1.3	7
47	Introduction to Stand-up Meetings in Agile Methods. , 2009, , .		5
48	A systematic review of theory use in studies investigating the motivations of software engineers. ACM Transactions on Software Engineering and Methodology, 2009, 18, 1-29.	6.0	46
49	Models of motivation in software engineering. Information and Software Technology, 2009, 51, 219-233.	4.4	122
50	Design Patterns and Change Proneness: A Replication Using Proprietary C# Software. , 2009, , .		20
51	An initial investigation of software practitioners' motivation. , 2009, , .		8
52	Fault Analysis in OSS Based on Program Slicing Metrics. , 2009, , .		8
53	Motivation in Software Engineering: A systematic literature review. Information and Software Technology, 2008, 50, 860-878.	4.4	337
54	What Do We Know about Developer Motivation?. IEEE Software, 2008, 25, 92-94.	1.8	46

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55	The impact of staff turnover on software projects. , 2008, , .		41
56	Improving the Precision of Fowler's Definitions of Bad Smells. , 2008, , .		9
57	Do bad smells indicate "trouble" in code?. , 2008, , .		6
58	Software process simulation modelling: A survey of practice. Journal of Simulation, 2008, 2, 91-102.	1.5	19
59	Exploring motivational differences between software developers and project managers. , 2007, , .		6
60	Getting the Best out of Software Process Simulation and Empirical Research in Software Engineering. , 2007, , .		6
61	Does the XP environment meet the motivational needs of the software developer? An empirical study. , 2007, , .		27
62	Reducing Regression Test Size by Exclusion. Conference on Software Maintenance, Proceedings of the, 2007, , .	0.0	2
63	Using multi dimensional scaling to analyse software engineers' deâ€motivators for SPI. Software Process Improvement and Practice, 2007, 12, 511-522.	1.1	0
64	Motivating developer performance to improve project outcomes in a high maturity organization. Software Quality Journal, 2007, 15, 365-381.	2.2	15
65	Software developer motivation in a high maturity company: a case study. Software Process Improvement and Practice, 2006, 11, 219-228.	1.1	23
66	Trust in software outsourcing relationships: An empirical investigation of Indian software companies. Information and Software Technology, 2006, 48, 345-354.	4.4	108
67	Using an expert panel to validate a requirements process improvement model. Journal of Systems and Software, 2005, 76, 251-275.	4.5	114
68	Defining a Requirements Process Improvement Model. Software Quality Journal, 2005, 13, 247-279.	2.2	61
69	Difficulties in Managing Offshore Software Outsourcing Relationships: An Empirical Analysis of 18 High Maturity Indian Software Companies. Journal of Information Technology Case and Application Research, 2005, 7, 25-41.	0.8	45
70	Software engineering practice versus evidence-based software engineering research. , 2005, , .		6
71	Critical factors in software outsourcing. , 2004, , .		15
72	Can Thomas Kuhn's paradigms help us understand software engineering?. European Journal of Information Systems, 2004, 13, 235-243.	9.2	19

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73	Software Process Improvement Problems in Twelve Software Companies: An Empirical Analysis. Empirical Software Engineering, 2003, 8, 7-42.	3.9	107
74	A quantitative and qualitative analysis of factors affecting software processes. Journal of Systems and Software, 2003, 66, 7-21.	4.5	74
75	De-motivators for software process improvement: an analysis of practitioners' views. Journal of Systems and Software, 2003, 66, 23-33.	4.5	171
76	Key success factors for implementing software process improvement: a maturity-based analysis. Journal of Systems and Software, 2002, 62, 71-84.	4.5	147
77	Motivators of Software Process Improvement: an analysis of practitioners' views. Journal of Systems and Software, 2002, 62, 85-96.	4.5	116
78	Implementing software process improvement: an empirical study. Software Process Improvement and Practice, 2002, 7, 3-15.	1.1	79
79	Practitioner roles in software process improvement: an analysis using grid technique. Software Process Improvement and Practice, 2002, 7, 17-31.	1.1	22
80	Simulating global software evolution processes by combining simple models: an initial study. Software Process Improvement and Practice, 2002, 7, 113-126.	1.1	13
81	Software Process Improvement Motivators: An Analysis using Multidimensional Scaling. Empirical Software Engineering, 2002, 7, 93-114.	3.9	18
82	An analysis of some ?core studies? of software process improvement. Software Process Improvement and Practice, 2001, 6, 169-187.	1.1	17
83	Ethical Issues in Software Engineering Research: A Survey of Current Practice. Empirical Software Engineering, 2001, 6, 305-317.	3.9	33
84	A framework for evaluation and prediction of software process improvement success. Journal of Systems and Software, 2001, 59, 135-142.	4.5	41
85	A Critical Analysis of Current OO Design Metrics. Software Quality Journal, 1999, 8, 97-110.	2.2	17
86	Perceptions of software quality: a pilot study. Software Quality Journal, 1998, 7, 67-75.	2.2	31
87	Title is missing!. Software Quality Journal, 1998, 7, 67-75.	2.2	9
88	Implementing effective software metrics programs. IEEE Software, 1997, 14, 55-65.	1.8	115
89	Software quality programmes: a snapshot of theory versus reality. Software Quality Journal, 1996, 5, 235-242.	2.2	3
90	Implementing software metrics ? the critical success factors. Software Quality Journal, 1994, 3, 195-208.	2.2	10