

Antony Tang

List of Publications by Year in descending order

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68
papers

2,069
citations

361296

20
h-index

377752

34
g-index

71
all docs

71
docs citations

71
times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	Mining and relating design contexts and design patterns from Stack Overflow. Empirical Software Engineering, 2022, 27, 1.	3.0	6
2	Mining Architecture Tactics and Quality Attributes knowledge in Stack Overflow. Journal of Systems and Software, 2021, 180, 111005.	3.3	15
3	Architecture information communication in two OSS projects: The why, who, when, and what. Journal of Systems and Software, 2021, 181, 111035.	3.3	6
4	Decision-Making Principles for Better Software Design Decisions. IEEE Software, 2021, 38, 98-102.	2.1	3
5	Empirical research for software architecture decision making: An analysis. Journal of Systems and Software, 2019, 149, 360-381.	3.3	23
6	Architecture Patterns, Quality Attributes, and Design Contexts: How Developers Design with Them. , 2018, , .		15
7	Improving software design reasoningâ€“A reminder card approach. Journal of Systems and Software, 2018, 144, 22-40.	3.3	21
8	A systematic mapping study on text analysis techniques in software architecture. Journal of Systems and Software, 2018, 144, 533-558.	3.3	19
9	From craft to science. , 2018, , .		3
10	Human Aspects in Software Architecture Decision Making: A Literature Review. , 2017, , .		15
11	Predicting indoor spatial movement using data mining and movement patterns. , 2017, , .		6
12	Querying Software Architecture Knowledge as Linked Open Data. , 2017, , .		2
13	Message from the MARCH 2017 Chairs. , 2017, , .		0
14	In two minds: how reflections influence software design thinking. Journal of Software: Evolution and Process, 2016, 28, 394-426.	1.2	24
15	Reflective Approach for Software Design Decision Making. , 2016, , .		15
16	Characterising indoor positioning estimation using experimental data from an active RFID-based real-time location system. Journal of Location Based Services, 2016, 10, 262-284.	1.4	0
17	Heuristics-based indoor positioning systems: a systematic literature review. Journal of Location Based Services, 2016, 10, 178-211.	1.4	10
18	Decision making in software architecture. Journal of Systems and Software, 2016, 117, 638-644.	3.3	61

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19	How organisation of architecture documentation affects architectural knowledge retrieval. Science of Computer Programming, 2016, 121, 75-99.	1.5	9
20	10 years of software architecture knowledge management: Practice and future. Journal of Systems and Software, 2016, 116, 191-205.	3.3	101
21	Software Architecture Design Reasoning: A Card Game to Help Novice Designers. Lecture Notes in Computer Science, 2016, , 22-38.	1.0	7
22	Understanding the Causes of Architecture Changes Using OSS Mailing Lists. International Journal of Software Engineering and Knowledge Engineering, 2015, 25, 1633-1651.	0.6	5
23	The Road Ahead for Architectural Languages. IEEE Software, 2015, 32, 98-105.	2.1	30
24	Supporting architecture documentation. , 2015, , .		2
25	A Conceptual Model for Architecting Mobile Applications. , 2015, , .		4
26	Aligning Qualitative, Real-Time, and Probabilistic Property Specification Patterns Using a Structured English Grammar. IEEE Transactions on Software Engineering, 2015, 41, 620-638.	4.3	88
27	Software Designers Satisfice. Lecture Notes in Computer Science, 2015, , 105-120.	1.0	6
28	Causes of Architecture Changes: An Empirical Study through the Communication in OSS Mailing Lists. , 2015, , .		4
29	The impact of prior knowledge on searching in software documentation. , 2014, , .		7
30	How Do Open Source Communities Document Software Architecture: An Exploratory Survey. , 2014, , .		30
31	Knowledge-based approaches in software documentation: A systematic literature review. Information and Software Technology, 2014, 56, 545-567.	3.0	73
32	Software architecture review by association. Journal of Systems and Software, 2014, 88, 87-101.	3.3	31
33	An exploratory study on ontology engineering for software architecture documentation. Computers in Industry, 2014, 65, 1053-1064.	5.7	18
34	What Industry Needs from Architectural Languages: A Survey. IEEE Transactions on Software Engineering, 2013, 39, 869-891.	4.3	203
35	Does decision documentation help junior designers rationalize their decisions? A comparative multiple-case study. Journal of Systems and Software, 2013, 86, 1545-1565.	3.3	31
36	Ontology-based Software Architecture Documentation. , 2012, , .		25

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37	Power-aware speed scaling in processor sharing systems: Optimality and robustness. Performance Evaluation, 2012, 69, 601-622.	0.9	64
38	Design Strategy and Software Design Effectiveness. IEEE Software, 2012, 29, 51-55.	2.1	14
39	The Boomeranged Software Architect. , 2011, , .		2
40	Software designers, are you biased?. , 2011, , .		29
41	Software Architecture Documentation: The Road Ahead. , 2011, , .		29
42	To branch or not to branch?. , 2011, , .		9
43	Advanced quality prediction model for software architectural knowledge sharing. Journal of Systems and Software, 2011, 84, 786-802.	3.3	9
44	Building roadmaps. , 2011, , .		5
45	On the responsibilities of software architects and software engineers in an agile environment. , 2011, , .		4
46	The Impact of Multi-site Software Governance on Knowledge Management. , 2011, , .		10
47	Traceability in the Co-evolution of Architectural Requirements and Design. , 2011, , 35-60.		16
48	Collision avoidance timing analysis of DSRC-based vehicles. Accident Analysis and Prevention, 2010, 42, 182-195.	3.0	88
49	A comparative study of architecture knowledge management tools. Journal of Systems and Software, 2010, 83, 352-370.	3.3	155
50	What makes software design effective?. Design Studies, 2010, 31, 614-640.	1.9	67
51	SPL migration tensions. , 2010, , .		4
52	A Formal Syntax for Probabilistic Timed Property Sequence Charts. , 2009, , .		10
53	Software Architecture Design Reasoning: A Case for Improved Methodology Support. IEEE Software, 2009, 26, 43-49.	2.1	24
54	A Constraint-Oriented Approach to Software Architecture Design. , 2009, , .		3

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55	An analysis of decision-centric architectural design approaches. , 2009, , .		6
56	Modeling constraints improves software architecture design reasoning. , 2009, , .		7
57	Design Reasoning Improves Software Design Quality. Lecture Notes in Computer Science, 2008, , 28-42.	1.0	29
58	Towards Independent Software Architecture Review. Lecture Notes in Computer Science, 2008, , 306-313.	1.0	5
59	Performance Evaluation and Prediction for Legacy Information Systems. , 2007, , .		11
60	Attributes for Characterizing the Evolution of Architectural Design Decisions. , 2007, , .		9
61	Using Bayesian belief networks for change impact analysis in architecture design. Journal of Systems and Software, 2007, 80, 127-148.	3.3	52
62	A rationale-based architecture model for design traceability and reasoning. Journal of Systems and Software, 2007, 80, 918-934.	3.3	208
63	Industrial Perspective on the Usefulness of Design Rationale for Software Maintenance: A Survey. , 2006, , .		5
64	A survey of architecture design rationale. Journal of Systems and Software, 2006, 79, 1792-1804.	3.3	162
65	A Comparative Analysis of Architecture Frameworks. , 0, , .		51
66	Architecture Rationalization: A Methodology for Architecture Verifiability, Traceability and Completeness. , 0, , .		16
67	Predicting Change Impact in Architecture Design with Bayesian Belief Networks. , 0, , .		5
68	A Survey of the Use and Documentation of Architecture Design Rationale. , 0, , .		35