

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	A rationale-based architecture model for design traceability and reasoning. Journal of Systems and Software, 2007, 80, 918-934.	3.3	208
2	What Industry Needs from Architectural Languages: A Survey. IEEE Transactions on Software Engineering, 2013, 39, 869-891.	4.3	203
3	A survey of architecture design rationale. Journal of Systems and Software, 2006, 79, 1792-1804.	3.3	162
4	A comparative study of architecture knowledge management tools. Journal of Systems and Software, 2010, 83, 352-370.	3.3	155
5	10 years of software architecture knowledge management: Practice and future. Journal of Systems and Software, 2016, 116, 191-205.	3.3	101
6	Collision avoidance timing analysis of DSRC-based vehicles. Accident Analysis and Prevention, 2010, 42, 182-195.	3.0	88
7	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
8	Knowledge-based approaches in software documentation: A systematic literature review. Information and Software Technology, 2014, 56, 545-567.	3.0	73
9	What makes software design effective?. Design Studies, 2010, 31, 614-640.	1.9	67
10	Power-aware speed scaling in processor sharing systems: Optimality and robustness. Performance Evaluation, 2012, 69, 601-622.	0.9	64
11	Decision making in software architecture. Journal of Systems and Software, 2016, 117, 638-644.	3.3	61
12	Using Bayesian belief networks for change impact analysis in architecture design. Journal of Systems and Software, 2007, 80, 127-148.	3.3	52
13	A Comparative Analysis of Architecture Frameworks. , 0, , .		51
14	A Survey of the Use and Documentation of Architecture Design Rationale. , 0, , .		35
15	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
16	Software architecture review by association. Journal of Systems and Software, 2014, 88, 87-101.	3.3	31
17	How Do Open Source Communities Document Software Architecture: An Exploratory Survey. , 2014, , .		30
18	The Road Ahead for Architectural Languages. IEEE Software, 2015, 32, 98-105.	2.1	30

#	ARTICLE	IF	CITATIONS
19	Software designers, are you biased?. , 2011, , .		29
20	Software Architecture Documentation: The Road Ahead. , 2011, , .		29
21	Design Reasoning Improves Software Design Quality. Lecture Notes in Computer Science, 2008, , 28-42.	1.0	29
22	Ontology-based Software Architecture Documentation. , 2012, , .		25
23	Software Architecture Design Reasoning: A Case for Improved Methodology Support. IEEE Software, 2009, 26, 43-49.	2.1	24
24	In two minds: how reflections influence software design thinking. Journal of Software: Evolution and Process, 2016, 28, 394-426.	1.2	24
25	Empirical research for software architecture decision making: An analysis. Journal of Systems and Software, 2019, 149, 360-381.	3.3	23
26	Improving software design reasoningâ€”A reminder card approach. Journal of Systems and Software, 2018, 144, 22-40.	3.3	21
27	A systematic mapping study on text analysis techniques in software architecture. Journal of Systems and Software, 2018, 144, 533-558.	3.3	19
28	An exploratory study on ontology engineering for software architecture documentation. Computers in Industry, 2014, 65, 1053-1064.	5.7	18
29	Architecture Rationalization: A Methodology for Architecture Verifiability, Traceability and Completeness. , 0, , .		16
30	Traceability in the Co-evolution of Architectural Requirements and Design. , 2011, , 35-60.		16
31	Reflective Approach for Software Design Decision Making. , 2016, , .		15
32	Human Aspects in Software Architecture Decision Making: A Literature Review. , 2017, , .		15
33	Architecture Patterns, Quality Attributes, and Design Contexts: How Developers Design with Them. , 2018, , .		15
34	Mining Architecture Tactics and Quality Attributes knowledge in Stack Overflow. Journal of Systems and Software, 2021, 180, 111005.	3.3	15
35	Design Strategy and Software Design Effectiveness. IEEE Software, 2012, 29, 51-55.	2.1	14
36	Performance Evaluation and Prediction for Legacy Information Systems. , 2007, , .		11

#	ARTICLE	IF	CITATIONS
37	A Formal Syntax for Probabilistic Timed Property Sequence Charts. , 2009, , .		10
38	The Impact of Multi-site Software Governance on Knowledge Management. , 2011, , .		10
39	Heuristics-based indoor positioning systems: a systematic literature review. Journal of Location Based Services, 2016, 10, 178-211.	1.4	10
40	Attributes for Characterizing the Evolution of Architectural Design Decisions. , 2007, , .		9
41	To branch or not to branch?. , 2011, , .		9
42	Advanced quality prediction model for software architectural knowledge sharing. Journal of Systems and Software, 2011, 84, 786-802.	3.3	9
43	How organisation of architecture documentation affects architectural knowledge retrieval. Science of Computer Programming, 2016, 121, 75-99.	1.5	9
44	Modeling constraints improves software architecture design reasoning. , 2009, , .		7
45	The impact of prior knowledge on searching in software documentation. , 2014, , .		7
46	Software Architecture Design Reasoning: A Card Game to Help Novice Designers. Lecture Notes in Computer Science, 2016, , 22-38.	1.0	7
47	An analysis of decision-centric architectural design approaches. , 2009, , .		6
48	Predicting indoor spatial movement using data mining and movement patterns. , 2017, , .		6
49	Architecture information communication in two OSS projects: The why, who, when, and what. Journal of Systems and Software, 2021, 181, 111035.	3.3	6
50	Mining and relating design contexts and design patterns from Stack Overflow. Empirical Software Engineering, 2022, 27, 1.	3.0	6
51	Software Designers Satisfice. Lecture Notes in Computer Science, 2015, , 105-120.	1.0	6
52	Predicting Change Impact in Architecture Design with Bayesian Belief Networks. , 0, , .		5
53	Industrial Perspective on the Usefulness of Design Rationale for Software Maintenance: A Survey. , 2006, , .		5
54	Building roadmaps. , 2011, , .		5

#	ARTICLE	IF	CITATIONS
55	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
56	Towards Independent Software Architecture Review. Lecture Notes in Computer Science, 2008, , 306-313.	1.0	5
57	SPL migration tensions. , 2010, , .		4
58	On the responsibilities of software architects and software engineers in an agile environment. , 2011, , .		4
59	A Conceptual Model for Architecting Mobile Applications. , 2015, , .		4
60	Causes of Architecture Changes: An Empirical Study through the Communication in OSS Mailing Lists. , 2015, , .		4
61	A Constraint-Oriented Approach to Software Architecture Design. , 2009, , .		3
62	From craft to science. , 2018, , .		3
63	Decision-Making Principles for Better Software Design Decisions. IEEE Software, 2021, 38, 98-102.	2.1	3
64	The Boomeranged Software Architect. , 2011, , .		2
65	Supporting architecture documentation. , 2015, , .		2
66	Querying Software Architecture Knowledge as Linked Open Data. , 2017, , .		2
67	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
68	Message from the MARCH 2017 Chairs. , 2017, , .		0