Davide Taibi

List of Publications by Year
in descending order

83 papers	1,944 citations	430874 18 h-index	414414 32 g-index
85 all docs	85 docs citations	85 times ranked	843 citing authors

#	ARTICLE	IF	CITATIONS
1	Processes, Motivations, and Issues for Migrating to Microservices Architectures: An Empirical Investigation. IEEE Cloud Computing, 2017, 4, 22-32.	3.9	181
2	On the Definition of Microservice Bad Smells. IEEE Software, 2018, 35, 56-62.	1.8	128
3	Serverless Edge Computing: Vision and Challenges. , 2021, , .		92
4	Architectural Patterns for Microservices: A Systematic Mapping Study. , 2018, , .		89
5	MVP Explained: A Systematic Mapping Study on the Definitions of Minimal Viable Product. , 2016, , .		78
6	How developers perceive smells in source code: A replicated study. Information and Software Technology, 2017, 92, 223-235.	4.4	68
7	A systematic literature review on Technical Debt prioritization: Strategies, processes, factors, and tools. Journal of Systems and Software, 2021, 171, 110827.	4.5	64
8	An Overview and Comparison of Technical Debt Measurement Tools. IEEE Software, 2021, 38, 61-71.	1.8	57
9	A Survey on Open Source Software Trustworthiness. IEEE Software, 2011, 28, 67-75.	1.8	52
10	OpenBQR: a framework for the assessment of OSS. International Federation for Information Processing, 2007, , 173-186.	0.4	48
11	From monolithic systems to Microservices: An assessment framework. Information and Software Technology, 2021, 137, 106600.	4.4	46
12	The Technical Debt Dataset. , 2019, , .		45
13	Architectural Smells Detected by Tools: a Catalogue Proposal. , 2019, , .		43
14	From Monolithic Systems to Microservices: A Decomposition Framework based on Process Mining. , 2019, , .		43
15	Towards microservice smells detection. , 2020, , .		35
16	Are SonarQube Rules Inducing Bugs?. , 2020, , .		33
17	Microservices Anti-patterns: A Taxonomy. , 2020, , 111-128.		32
18	Does migrating a monolithic system to microservices decrease the technical debt?. Journal of Systems and Software, 2020, 169, 110710.	4.5	31

#	Article	IF	Citations
19	Analyzing Forty Years of Software Maintenance Models. , 2017, , .		30
20	Implementing a Microservices System with Blockchain Smart Contracts. , 2019, , .		29
21	Patterns for Serverless Functions (Function-as-a-Service): A Multivocal Literature Review. , 2020, , .		29
22	Microservices in agile software development. , 2017, , .		27
23	Are architectural smells independent from code smells? An empirical study. Journal of Systems and Software, 2019, 154, 139-156.	4.5	27
24	A Survey on Code Analysis Tools for Software Maintenance Prediction. Advances in Intelligent Systems and Computing, 2020, , 165-175.	0.6	25
25	Some SonarQube issues have a significant but small effect on faults and changes. A large-scale empirical study. Journal of Systems and Software, 2020, 170, 110750.	4.5	25
26	Continuous Architecting with Microservices and DevOps: A Systematic Mapping Study. Communications in Computer and Information Science, 2019, , 126-151.	0.5	24
27	Open Source Software Evaluation, Selection, and Adoption: a Systematic Literature Review. , 2020, , .		24
28	Quality of Open Source Software: The QualiPSo Trustworthiness Model. IFIP Advances in Information and Communication Technology, 2009, , 199-212.	0.7	23
29	An empirical investigation of perceived reliability of open source Java programs. , 2012, , .		22
30	Towards surgically-precise technical debt estimation: early results and research roadmap. , 2019, , .		22
31	Does code quality affect pull request acceptance? An empirical study. Journal of Systems and Software, 2021, 171, 110806.	4.5	22
32	Serverless: What it Is, What to Do and What Not to Do. , 2020, , .		21
33	Serverless Computing-Where Are We Now, and Where Are We Heading?. IEEE Software, 2021, 38, 25-31.	1.8	21
34	The QualiSPo approach to OSS product quality evaluation. , 2010, , .		20
35	On the Diffuseness of Code Technical Debt in Java Projects of the Apache Ecosystem. , 2019, , .		19
36	Applying SCRUM in an OSS Development Process: An Empirical Evaluation. Lecture Notes in Business Information Processing, 2010, , 147-159.	1.0	19

#	Article	IF	Citations
37	Comparing Requirements Decomposition Within the Scrum, Scrum with Kanban, XP, and Banana Development Processes. Lecture Notes in Business Information Processing, 2017, , 68-83.	1.0	18
38	Motivations, benefits, and issues for adopting Micro-Frontends: A Multivocal Literature Review. Information and Software Technology, 2021, 136, 106571.	4.4	18
39	Software Quality for AI: Where We Are Now?. Lecture Notes in Business Information Processing, 2021, , 43-53.	1.0	17
40	An Investigation of the Users' Perception of OSS Quality. International Federation for Information Processing, 2010, , 15-28.	0.4	17
41	Predicting OSS trustworthiness on the basis of elementary code assessment. , 2010, , .		16
42	On the definition of dynamic software measures. , 2012, , .		15
43	Comparing Communication Effort within the Scrum, Scrum with Kanban, XP, and Banana Development Processes. , 2017, , .		15
44	Exploring information from OSS repositories and platforms to support OSS selection decisions. Information and Software Technology, 2018, 104, 104-108.	4.4	14
45	A Study on OSS Marketing and Communication Strategies. International Federation for Information Processing, 2012, , 338-343.	0.4	11
46	OpenSZZ. , 2020, , .		11
47	A probability-based approach to modeling the risk of unauthorized propagation of information in on-line social networks. , 2011, , .		10
48	Interoperability-Related Architectural Problems and Solutions in Information Systems: A Scoping Study. Lecture Notes in Computer Science, 2014, , 308-323.	1.3	10
49	Exploring factors and metrics to select open source software components for integration: An empirical study. Journal of Systems and Software, 2022, 188, 111255.	4.5	10
50	Platforms for Serverless at the Edge: A Review. Communications in Computer and Information Science, 2021, , 29-40.	0.5	8
51	Structural Coupling for Microservices. , 2021, , .		8
52	Lessons Learned on Communication Channels and Practices in Agile Software Development. , 0, , .		8
53	How long do Junior Developers take to Remove Technical Debt Items?. , 2020, , .		8
54	Towards certifying the testing process of Open-Source Software: New challenges or old methodologies?. , 2009, , .		7

#	Article	IF	Citations
55	An Empirical Study on Technical Debt in a Finnish SME. , 2019, , .		7
56	Towards The Evaluation of OSS Trustworthiness: Lessons Learned From The Observation of Relevant OSS Projects. International Federation for Information Processing, 2008, , 389-395.	0.4	7
57	OSS-TMM. International Journal of Open Source Software and Processes, 2011, 3, 1-22.	0.6	7
58	Controlled experiments comparing fault-tree-based safety analysis techniques. , 2014, , .		6
59	OP2A: How to Improve the Quality of the Web Portal of Open Source Software Products. Lecture Notes in Business Information Processing, 2012, , 149-162.	1.0	6
60	A Decomposition and Metric-Based Evaluation Framework for Microservices. Communications in Computer and Information Science, 2020, , 133-149.	0.5	6
61	Application of AC/DC/AC converter for sensorless nonlinear control of permanent magnet synchronous motor.. , 2010, , .		5
62	Estimating Software Development Effort Based on Phases. , 2014, , .		5
63	RARE: a labeled dataset for cloud-native memory anomalies. , 2020, , .		5
64	Testing Approaches And Tools For AWS Lambda Serverless-Based Applications. , 2022, , .		5
65	Process Configuration Framework Tool. , 2014, , .		4
66	A Survey on the Importance of Some Economic Factors in the Adoption of Open Source Software. Studies in Computational Intelligence, 2010, , 151-162.	0.9	4
67	Right Scaling for Right Pricing: A Case Study on Total Cost of Ownership Measurement for Cloud Migration. Communications in Computer and Information Science, 2019, , 190-214.	0.5	4
68	A Coordination-Based Brokerage Architecture for Multi-cloud Resource Markets. , 2016, , .		3
69	Towards Cloud Native Continuous Delivery: An Industrial Experience Report. , 2018, , .		3
70	On the Relationship Between Coupling and Refactoring: An Empirical Viewpoint. , 2019, , .		3
71	Metrics selection for load monitoring of service-oriented system. , 2021, , .		3
72	Can Opinion Mining Techniques Help to Select Open Source Software?. International Journal of Computer & Software Engineering, 2016, 1, .	0.4	3

#	Article	IF	Citations
73	Towards a Lean Approach to Reduce Code Smells Injection: An Empirical Study. Lecture Notes in Business Information Processing, 2016, , 300-304.	1.0	3
74	Cohort Studies in Software Engineering. , 2020, , .		3
75	Asterism: Decentralized File Sharing Application for Mobile Devices. , 2019, , .		2
76	Making the Cloud Work for Software Producers: Linking Architecture, Operating Cost and Revenue. , 2018, , .		2
77	An Investigation on the Availability of Contribution Information in Open-Source Projects. , 2021, , .		1
78	On the Technical Debt Prioritization and Cost Estimation with SonarQube Tool. Lecture Notes on Multidisciplinary Industrial Engineering, 2022, , 302-309.	0.6	1
79	Towards Component-Aware Function Point Measurement. , 2016, , .		0
80	Does Visualization Speed Up the Safety Analysis Process?. Lecture Notes in Computer Science, 2014, , 431-443.	1.3	0
81	Prioritizing Corrective Maintenance Activities for Android Applications: An Industrial Case Study on Android Crash Reports. Lecture Notes in Business Information Processing, 2018, , 133-143.	1.0	0
82	On the Link Between Refactoring Activity and Class Cohesion Through the Prism of Two Cohesion-Based Metrics. , 2020, , .		0
83	OSS-TMM. , 0, , 59-78.		0