

Alexander Chatzigeorgiou

List of Publications by Year in descending order

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59
papers

2,017
citations

361388

20
h-index

254170

43
g-index

60
all docs

60
docs citations

60
times ranked

1171
citing authors

#	ARTICLE	IF	CITATIONS
1	Design Pattern Detection Using Similarity Scoring. IEEE Transactions on Software Engineering, 2006, 32, 896-909.	5.6	337
2	Identification of Move Method Refactoring Opportunities. IEEE Transactions on Software Engineering, 2009, 35, 347-367.	5.6	276
3	The financial aspect of managing technical debt: A systematic literature review. Information and Software Technology, 2015, 64, 52-73.	4.4	133
4	Identification of extract method refactoring opportunities for the decomposition of methods. Journal of Systems and Software, 2011, 84, 1757-1782.	4.5	131
5	Identifying, categorizing and mitigating threats to validity in software engineering secondary studies. Information and Software Technology, 2019, 106, 201-230.	4.4	125
6	Identification and application of Extract Class refactorings in object-oriented systems. Journal of Systems and Software, 2012, 85, 2241-2260.	4.5	83
7	Energy Consumption Estimation in Embedded Systems. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 797-804.	4.7	64
8	Architectural Risk Analysis of Software Systems Based on Security Patterns. IEEE Transactions on Dependable and Secure Computing, 2008, 5, 129-142.	5.4	61
9	Evaluation of object-oriented design patterns in game development. Information and Software Technology, 2007, 49, 445-454.	4.4	58
10	The Effect of GoF Design Patterns on Stability: A Case Study. IEEE Transactions on Software Engineering, 2015, 41, 781-802.	5.6	58
11	Investigating the evolution of code smells in object-oriented systems. Innovations in Systems and Software Engineering, 2014, 10, 3-18.	2.1	51
12	Identification of refactoring opportunities introducing polymorphism. Journal of Systems and Software, 2010, 83, 391-404.	4.5	40
13	A mapping study on design-time quality attributes and metrics. Journal of Systems and Software, 2017, 127, 52-77.	4.5	40
14	Multilayer Feed Forward Models in Groundwater Level Forecasting Using Meteorological Data in Public Management. Water Resources Management, 2018, 32, 5041-5052.	3.9	37
15	Decomposing object-oriented class modules using an agglomerative clustering technique. , 2009, , .		34
16	The Evolution of Technical Debt in the Apache Ecosystem. Lecture Notes in Computer Science, 2017, , 51-66.	1.3	31
17	A qualitative analysis of software security patterns. Computers and Security, 2006, 25, 379-392.	6.0	29
18	Estimating the breaking point for technical debt. , 2015, , .		27

#	ARTICLE	IF	CITATIONS
19	Software metrics fluctuation: a property for assisting the metric selection process. Information and Software Technology, 2016, 72, 110-124.	4.4	27
20	Technical debt forecasting: An empirical study on open-source repositories. Journal of Systems and Software, 2020, 170, 110777.	4.5	26
21	Identifying Extract Method Refactoring Opportunities Based on Functional Relevance. IEEE Transactions on Software Engineering, 2017, 43, 954-974.	5.6	25
22	Software engineering practices for scientific software development: A systematic mapping study. Journal of Systems and Software, 2021, 172, 110848.	4.5	23
23	The Perception of Technical Debt in the Embedded Systems Domain: An Industrial Case Study. , 2016, , .		22
24	Evaluating the agreement among technical debt measurement tools: building an empirical benchmark of technical debt liabilities. Empirical Software Engineering, 2020, 25, 4161-4204.	3.9	22
25	Studying the evolution of PHP web applications. Information and Software Technology, 2016, 72, 48-67.	4.4	20
26	Reusability of open source software across domains: A case study. Journal of Systems and Software, 2017, 134, 211-227.	4.5	20
27	An empirical study on students'™ ability to comprehend design patterns. Computers and Education, 2008, 51, 1007-1016.	8.3	19
28	Energy Metric for Software Systems. Software Quality Journal, 2002, 10, 355-371.	2.2	16
29	Facilitating software extension with design patterns and Aspect-Oriented Programming. Journal of Systems and Software, 2008, 81, 1725-1737.	4.5	16
30	What can violations of good practices tell about the relationship between GoF patterns and run-time quality attributes?. Information and Software Technology, 2019, 105, 1-16.	4.4	16
31	A Method for Assessing Class Change Proneness. , 2017, , .		14
32	The relation between technical debt and corrective maintenance in PHP web applications. Information and Software Technology, 2017, 90, 70-74.	4.4	13
33	Can Clean New Code Reduce Technical Debt Density?. IEEE Transactions on Software Engineering, 2022, 48, 1705-1721.	5.6	13
34	Reusability Index: A Measure for Assessing Software Assets Reusability. Lecture Notes in Computer Science, 2018, , 43-58.	1.3	10
35	Exploring the Relation between Technical Debt Principal and Interest: An Empirical Approach. Information and Software Technology, 2020, 128, 106391.	4.4	10
36	Benchmarking library and application software with Data Envelopment Analysis. Software Quality Journal, 2011, 19, 553-578.	2.2	9

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37	Factors Affecting Studentsâ€™ Performance in Distributed Pair Programming. Journal of Educational Computing Research, 2019, 57, 513-544.	5.5	9
38	CODE reuse in practice: Benefiting or harming technical debt. Journal of Systems and Software, 2020, 167, 110618.	4.5	9
39	A spatiotemporal Data Envelopment Analysis (S-T DEA) approach: the need to assess evolving units. Annals of Operations Research, 2016, 238, 475-496.	4.1	7
40	Performance and power evaluation of C++ object-oriented programming in embedded processors. Information and Software Technology, 2003, 45, 195-201.	4.4	6
41	Exploring the frequency and change proneness of dynamic feature pattern instances in PHP applications. Science of Computer Programming, 2019, 171, 1-20.	1.9	5
42	Complexity Clustering of BPMN Models: Initial Experiments with the K-means Algorithm. Lecture Notes in Business Information Processing, 2020, , 57-69.	1.0	5
43	Blending an Android development course with software engineering concepts. Education and Information Technologies, 2016, 21, 1847-1875.	5.7	4
44	REACT - A Process for Improving Open-Source Software Reuse. , 2018, , .		4
45	Investigating Trade-offs between Portability, Performance and Maintainability in Exascale Systems. , 2020, , .		4
46	Architectural decision-making as a financial investment: An industrial case study. Information and Software Technology, 2021, 129, 106412.	4.4	4
47	The Risk of Generating Technical Debt Interest: A Case Study. SN Computer Science, 2021, 2, 1.	3.6	4
48	Investigating the effect of evolution and refactorings on feature scattering. Software Quality Journal, 2015, 23, 79-105.	2.2	3
49	REI: An integrated measure for software reusability. Journal of Software: Evolution and Process, 2019, 31, e2216.	1.6	3
50	Experience With Managing Technical Debt in Scientific Software Development Using the EXA2PRO Framework. IEEE Access, 2021, 9, 72524-72534.	4.2	3
51	An Empirical Evaluation of the Usefulness of Word Embedding Techniques in Deep Learning-Based Vulnerability Prediction. Communications in Computer and Information Science, 2022, , 23-37.	0.5	3
52	The temporality of technical debt introduction on new code and confounding factors. Software Quality Journal, 2022, 30, 283-305.	2.2	2
53	Brief Review of Software Security History with an Emphasis on Efforts Focused at Early Stages of the Software Lifecycle. Journal of Information Privacy and Security, 2014, 10, 3-27.	0.4	1
54	Translating quality-driven code change selection to an instance of multiple-criteria decision making. Information and Software Technology, 2022, 145, 106851.	4.4	1

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55	EVALUATING POWER EFFICIENT DATA-REUSE DECISIONS FOR EMBEDDED MULTIMEDIA APPLICATIONS: AN ANALYTICAL APPROACH. <i>Journal of Circuits, Systems and Computers</i> , 2004, 13, 151-180.	1.5	0
56	Implementation and evaluation of a queuing systems modelling course using Unified Modelling Language (UML). <i>International Journal of Teaching and Case Studies</i> , 2011, 3, 236.	0.1	0
57	Technical Debt in Agile Development. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2017, 42, 18-21.	0.7	0
58	Measuring Spatio-temporal Efficiency: An R Implementation for Time-Evolving Units. <i>Computational Economics</i> , 2020, 56, 843-864.	2.6	0
59	Decision support for GPU acceleration by predicting energy savings and programming effort. <i>Sustainable Computing: Informatics and Systems</i> , 2021, , 100631.	2.2	0