

# Alexander Chatzigeorgiou

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

1,307  
citations

17  
h-index

35  
g-index

60  
ext. papers

1,708  
ext. citations

2.5  
avg, IF

4.88  
L-index

#	Paper	IF	Citations
59	Design Pattern Detection Using Similarity Scoring. <i>IEEE Transactions on Software Engineering</i> , <b>2006</b> , 32, 896-909	3.5	252
58	Identification of Move Method Refactoring Opportunities. <i>IEEE Transactions on Software Engineering</i> , <b>2009</b> , 35, 347-367	3.5	202
57	Identification of extract method refactoring opportunities for the decomposition of methods. <i>Journal of Systems and Software</i> , <b>2011</b> , 84, 1757-1782	3.3	90
56	The financial aspect of managing technical debt: A systematic literature review. <i>Information and Software Technology</i> , <b>2015</b> , 64, 52-73	3.4	85
55	Identification and application of Extract Class refactorings in object-oriented systems. <i>Journal of Systems and Software</i> , <b>2012</b> , 85, 2241-2260	3.3	60
54	Identifying, categorizing and mitigating threats to validity in software engineering secondary studies. <i>Information and Software Technology</i> , <b>2019</b> , 106, 201-230	3.4	50
53	Evaluation of object-oriented design patterns in game development. <i>Information and Software Technology</i> , <b>2007</b> , 49, 445-454	3.4	44
52	Architectural Risk Analysis of Software Systems Based on Security Patterns. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2008</b> , 5, 129-142	3.9	42
51	The Effect of GoF Design Patterns on Stability: A Case Study. <i>IEEE Transactions on Software Engineering</i> , <b>2015</b> , 41, 781-802	3.5	39
50	Energy Consumption Estimation in Embedded Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2008</b> , 57, 797-804	5.2	39
49	Investigating the evolution of code smells in object-oriented systems. <i>Innovations in Systems and Software Engineering</i> , <b>2014</b> , 10, 3-18	1.1	38
48	Identification of refactoring opportunities introducing polymorphism. <i>Journal of Systems and Software</i> , <b>2010</b> , 83, 391-404	3.3	33
47	A mapping study on design-time quality attributes and metrics. <i>Journal of Systems and Software</i> , <b>2017</b> , 127, 52-77	3.3	25
46	A qualitative analysis of software security patterns. <i>Computers and Security</i> , <b>2006</b> , 25, 379-392	4.9	23
45	Decomposing object-oriented class modules using an agglomerative clustering technique <b>2009</b> ,		22
44	Multilayer Feed Forward Models in Groundwater Level Forecasting Using Meteorological Data in Public Management. <i>Water Resources Management</i> , <b>2018</b> , 32, 5041-5052	3.7	22
43	The Evolution of Technical Debt in the Apache Ecosystem. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 51-66.9		18

42	An empirical study on students' ability to comprehend design patterns. <i>Computers and Education</i> , <b>2008</b> , 51, 1007-1016	9.5	16
41	Software metrics fluctuation: a property for assisting the metric selection process. <i>Information and Software Technology</i> , <b>2016</b> , 72, 110-124	3.4	15
40	Estimating the breaking point for technical debt <b>2015</b> ,		15
39	Reusability of open source software across domains: A case study. <i>Journal of Systems and Software</i> , <b>2017</b> , 134, 211-227	3.3	14
38	The Perception of Technical Debt in the Embedded Systems Domain: An Industrial Case Study <b>2016</b> ,		14
37	Studying the evolution of PHP web applications. <i>Information and Software Technology</i> , <b>2016</b> , 72, 48-67	3.4	13
36	Identifying Extract Method Refactoring Opportunities Based on Functional Relevance. <i>IEEE Transactions on Software Engineering</i> , <b>2017</b> , 43, 954-974	3.5	12
35	A Method for Assessing Class Change Proneness <b>2017</b> ,		12
34	Facilitating software extension with design patterns and Aspect-Oriented Programming. <i>Journal of Systems and Software</i> , <b>2008</b> , 81, 1725-1737	3.3	12
33	Energy Metric for Software Systems. <i>Software Quality Journal</i> , <b>2002</b> , 10, 355-371	1.2	9
32	Technical debt forecasting: An empirical study on open-source repositories. <i>Journal of Systems and Software</i> , <b>2020</b> , 170, 110777	3.3	9
31	Evaluating the agreement among technical debt measurement tools: building an empirical benchmark of technical debt liabilities. <i>Empirical Software Engineering</i> , <b>2020</b> , 25, 4161-4204	3.3	8
30	What can violations of good practices tell about the relationship between GoF patterns and run-time quality attributes?. <i>Information and Software Technology</i> , <b>2019</b> , 105, 1-16	3.4	8
29	Software engineering practices for scientific software development: A systematic mapping study. <i>Journal of Systems and Software</i> , <b>2021</b> , 172, 110848	3.3	8
28	Benchmarking library and application software with Data Envelopment Analysis. <i>Software Quality Journal</i> , <b>2011</b> , 19, 553-578	1.2	6
27	The relation between technical debt and corrective maintenance in PHP web applications. <i>Information and Software Technology</i> , <b>2017</b> , 90, 70-74	3.4	5
26	A spatiotemporal Data Envelopment Analysis (S-T DEA) approach: the need to assess evolving units. <i>Annals of Operations Research</i> , <b>2016</b> , 238, 475-496	3.2	5
25	CODE reuse in practice: Benefiting or harming technical debt. <i>Journal of Systems and Software</i> , <b>2020</b> , 167, 110618	3.3	4

24	Reusability Index: A Measure for Assessing Software Assets Reusability. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 43-58	0.9	4
23	Performance and power evaluation of C++ object-oriented programming in embedded processors. <i>Information and Software Technology</i> , <b>2003</b> , 45, 195-201	3.4	4
22	On the Temporality of Introducing Code Technical Debt. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 68-82	0.3	4
21	Factors Affecting Students' Performance in Distributed Pair Programming. <i>Journal of Educational Computing Research</i> , <b>2019</b> , 57, 513-544	3.8	4
20	Can Clean New Code reduce Technical Debt Density. <i>IEEE Transactions on Software Engineering</i> , <b>2020</b> , 1-1	3.5	3
19	REACT - A Process for Improving Open-Source Software Reuse <b>2018</b> ,		3
18	Investigating the effect of evolution and refactorings on feature scattering. <i>Software Quality Journal</i> , <b>2015</b> , 23, 79-105	1.2	2
17	The Risk of Generating Technical Debt Interest: A Case Study. <i>SN Computer Science</i> , <b>2021</b> , 2, 1	2	2
16	Investigating Trade-offs between Portability, Performance and Maintainability in Exascale Systems <b>2020</b> ,		2
15	Exploring the Relation between Technical Debt Principal and Interest: An Empirical Approach. <i>Information and Software Technology</i> , <b>2020</b> , 128, 106391	3.4	2
14	Exploring the frequency and change proneness of dynamic feature pattern instances in PHP applications. <i>Science of Computer Programming</i> , <b>2019</b> , 171, 1-20	1.1	2
13	Architectural decision-making as a financial investment: An industrial case study. <i>Information and Software Technology</i> , <b>2021</b> , 129, 106412	3.4	2
12	Blending an Android development course with software engineering concepts. <i>Education and Information Technologies</i> , <b>2016</b> , 21, 1847-1875	3.6	1
11	Complexity Clustering of BPMN Models: Initial Experiments with the K-means Algorithm. <i>Lecture Notes in Business Information Processing</i> , <b>2020</b> , 57-69	0.6	1
10	The temporality of technical debt introduction on new code and confounding factors. <i>Software Quality Journal</i> , 1	1.2	1
9	An Empirical Evaluation of the Usefulness of Word Embedding Techniques in Deep Learning-Based Vulnerability Prediction. <i>Communications in Computer and Information Science</i> , <b>2022</b> , 23-37	0.3	1
8	REI: An integrated measure for software reusability. <i>Journal of Software: Evolution and Process</i> , <b>2019</b> , 31, e2216	1	0
7	Brief Review of Software Security History with an Emphasis on Efforts Focused at Early Stages of the Software Lifecycle. <i>Journal of Information Privacy and Security</i> , <b>2014</b> , 10, 3-27		0

6	Translating quality-driven code change selection to an instance of multiple-criteria decision making. <i>Information and Software Technology</i> , <b>2022</b> , 145, 106851	3.4	○
5	. <i>IEEE Access</i> , <b>2021</b> , 9, 72524-72534	3.5	○
4	Technical Debt in Agile Development. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , <b>2017</b> , 42, 18-21	0.4	
3	EVALUATING POWER EFFICIENT DATA-REUSE DECISIONS FOR EMBEDDED MULTIMEDIA APPLICATIONS: AN ANALYTICAL APPROACH. <i>Journal of Circuits, Systems and Computers</i> , <b>2004</b> , 13, 151-180	0.9	
2	Decision support for GPU acceleration by predicting energy savings and programming effort. <i>Sustainable Computing: Informatics and Systems</i> , <b>2021</b> , 100631	3	
1	Measuring Spatio-temporal Efficiency: An R Implementation for Time-Evolving Units. <i>Computational Economics</i> , <b>2020</b> , 56, 843-864	1.4	