

Gerardo Canfora

List of Publications by Year in descending order

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Version: 2024-02-01

167
papers

6,527
citations

201385

27
h-index

168136

53
g-index

171
all docs

171
docs citations

171
times ranked

3094
citing authors

#	ARTICLE	IF	CITATIONS
1	Patchworking: Exploring the code changes induced by vulnerability fixing activities. Information and Software Technology, 2022, 142, 106745.	3.0	3
2	Profiling gas consumption in solidity smart contracts. Journal of Systems and Software, 2022, 186, 111193.	3.3	15
3	A systematic literature review of blockchain and smart contract development: Techniques, tools, and open challenges. Journal of Systems and Software, 2021, 174, 110891.	3.3	93
4	Predicting issue types on GitHub. Science of Computer Programming, 2021, 205, 102598.	1.5	44
5	“Won’t We Fix this Issue?” Qualitative characterization and automated identification of wontfix issues on GitHub. Information and Software Technology, 2021, 139, 106665.	3.0	9
6	An NLP-based Tool for Software Artifacts Analysis. , 2021, , .		9
7	An empirical characterization of bad practices in continuous integration. Empirical Software Engineering, 2020, 25, 1095-1135.	3.0	42
8	Investigating the vulnerability fixing process in OSS projects: Peculiarities and challenges. Computers and Security, 2020, 99, 102067.	4.0	8
9	Demystifying the adoption of behavior-driven development in open source projects. Information and Software Technology, 2020, 123, 106311.	3.0	10
10	Detecting Video Game-Specific Bad Smells in Unity Projects. , 2020, , .		20
11	LEILA: Formal Tool for Identifying Mobile Malicious Behaviour. IEEE Transactions on Software Engineering, 2019, 45, 1230-1252.	4.3	43
12	Exploiting Natural Language Structures in Software Informal Documentation. IEEE Transactions on Software Engineering, 2019, , 1-1.	4.3	14
13	A Study on the Interplay between Pull Request Review and Continuous Integration Builds. , 2019, , .		24
14	Summarizing vulnerabilities’ descriptions to support experts during vulnerability assessment activities. Journal of Systems and Software, 2019, 156, 84-99.	3.3	38
15	Ticket Tagger: Machine Learning Driven Issue Classification. , 2019, , .		50
16	The relation between developers’ communication and fix-Inducing changes: An empirical study. Journal of Systems and Software, 2018, 140, 111-125.	3.3	9
17	Estimating the number of remaining links in traceability recovery (journal-first abstract). , 2018, , .		1
18	A Nlp-based Solution to Prevent from Privacy Leaks in Social Network Posts. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
19	Editorial: A five year retrospective. Journal of Software: Evolution and Process, 2017, 29, e1854.	1.2	0
20	Android apps and user feedback: a dataset for software evolution and quality improvement. , 2017, , .		36
21	Beacon-based context-aware architecture for crowd sensing public transportation scheduling and user habits. Procedia Computer Science, 2017, 109, 1110-1115.	1.2	10
22	How Open Source Projects Use Static Code Analysis Tools in Continuous Integration Pipelines. , 2017, , .		82
23	SURF: Summarizer of User Reviews Feedback. , 2017, , .		50
24	Estimating the number of remaining links in traceability recovery. Empirical Software Engineering, 2017, 22, 996-1027.	3.0	26
25	ARENA: An Approach for the Automated Generation of Release Notes. IEEE Transactions on Software Engineering, 2017, 43, 106-127.	4.3	69
26	Ransomware at X-Rays. , 2017, , .		4
27	A Methodology for Silent and Continuous Authentication in Mobile Environment. Communications in Computer and Information Science, 2017, , 241-265.	0.4	1
28	ARdoc: app reviews development oriented classifier. , 2016, , .		67
29	What would users change in my app? summarizing app reviews for recommending software changes. , 2016, , .		177
30	Evaluating Op-Code Frequency Histograms in Malware and Third-Party Mobile Applications. Communications in Computer and Information Science, 2016, , 201-222.	0.4	7
31	Acquiring and Analyzing App Metrics for Effective Mobile Malware Detection. , 2016, , .		32
32	Mobile malware detection in the real world. , 2016, , .		25
33	An HMM and structural entropy based detector for Android malware: An empirical study. Computers and Security, 2016, 61, 1-18.	4.0	62
34	DECA. , 2016, , .		20
35	A probabilistic approach for disclosure risk assessment in statistical databases. Quality and Quantity, 2016, 50, 729-749.	2.0	0
36	A set of features to detect web security threats. Journal of Computer Virology and Hacking Techniques, 2016, 12, 243-261.	1.6	9

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37	Silent and Continuous Authentication in Mobile Environment. , 2016, , .		4
38	How I Met Your Mother? - An Empirical Study about Android Malware Phylogenesis. , 2016, , .		2
39	Obfuscation Techniques against Signature-Based Detection: A Case Study. , 2015, , .		31
40	Defect prediction as a multiobjective optimization problem. Software Testing Verification and Reliability, 2015, 25, 426-459.	1.7	59
41	How can i improve my app? Classifying user reviews for software maintenance and evolution. , 2015, , .		292
42	Effectiveness of Opcode ngrams for Detection of Multi Family Android Malware. , 2015, , .		75
43	Development Emails Content Analyzer: Intention Mining in Developer Discussions (T). , 2015, , .		64
44	Composition-Malware: Building Android Malware at Run Time. , 2015, , .		30
45	How the Apache community upgrades dependencies: an evolutionary study. Empirical Software Engineering, 2015, 20, 1275-1317.	3.0	93
46	Irish: A Hidden Markov Model to detect coded information islands in free text. Science of Computer Programming, 2015, 105, 26-43.	1.5	4
47	Detecting Android malware using sequences of system calls. , 2015, , .		91
48	Improving data-intensive EDA performance with annotation-driven laziness. Science of Computer Programming, 2015, 97, 266-279.	1.5	0
49	Mobile Malware Detection using Op-code Frequency Histograms. , 2015, , .		32
50	Metamorphic Malware Detection Using Code Metrics. Information Security Journal, 2014, 23, 57-67.	1.3	26
51	How Developers' Collaborations Identified from Different Sources Tell Us about Code Changes. , 2014, , .		32
52	How the evolution of emerging collaborations relates to code changes: an empirical study. , 2014, , .		19
53	CODES: mining source code descriptions from developers discussions. , 2014, , .		53
54	Automatic generation of release notes. , 2014, , .		73

#	ARTICLE	IF	CITATIONS
55	Recommending refactorings based on team co-maintenance patterns. , 2014, , .		12
56	Reasoning under uncertainty and multi-criteria decision making in data privacy. Quality and Quantity, 2014, 48, 1957-1972.	2.0	6
57	How changes affect software entropy: an empirical study. Empirical Software Engineering, 2014, 19, 1-38.	3.0	50
58	Static analysis for the detection of metamorphic computer viruses using repeated-instructions counting heuristics. Journal of Computer Virology and Hacking Techniques, 2014, 10, 11-27.	1.6	23
59	Detection of Malicious Web Pages Using System Calls Sequences. Lecture Notes in Computer Science, 2014, , 226-238.	1.0	11
60	An approach for restructuring text content. , 2013, , .		5
61	A Hidden Markov Model to detect coded information islands in free text. , 2013, , .		9
62	Multi-objective Cross-Project Defect Prediction. , 2013, , .		126
63	YODA: Young and newcOmer Developer Assistant. , 2013, , .		5
64	A Case Study of Automating User Experience-Oriented Performance Testing on Smartphones. , 2013, , .		14
65	The Evolution of Project Inter-dependencies in a Software Ecosystem: The Case of Apache. , 2013, , .		65
66	Migrating Android Applications towards Service-centric Architectures with Sip2Share. , 2013, , .		1
67	Towards Effective Event-Driven SOA in Enterprise Systems. , 2013, , .		1
68	Empirical Principles and an Industrial Case Study in Retrieving Equivalent Requirements via Natural Language Processing Techniques. IEEE Transactions on Software Engineering, 2013, 39, 18-44.	4.3	86
69	Efficient data-intensive event-driven interaction in SOA. , 2013, , .		2
70	An Empirical Investigation on Documentation Usage Patterns in Maintenance Tasks. , 2013, , .		8
71	A Classifier of Malicious Android Applications. , 2013, , .		51
72	Who is going to mentor newcomers in open source projects?. , 2012, , .		105

#	ARTICLE	IF	CITATIONS
73	Enabling Advanced Loading Strategies for Data Intensive Web Services. , 2012, , .		9
74	Welcome to 3rd International Workshop on Emerging Trends in Software Metrics (WETSoM 2012). , 2012, , .		0
75	Mining source code descriptions from developer communications. , 2012, , .		65
76	Do Developers Introduce Bugs When They Do Not Communicate? The Case of Eclipse and Mozilla. , 2012, , .		19
77	Autonomic Workflow and Business Process Modelling for Networked Enterprises. Lecture Notes in Computer Science, 2012, , 115-142.	1.0	0
78	Software: evolution and process A new journal is born. Journal of Software: Evolution and Process, 2012, 24, 1-1.	1.2	4
79	A Bayesian Approach for On-Line Sum/Count/Max/Min Auditing on Boolean Data. Lecture Notes in Computer Science, 2012, , 295-307.	1.0	2
80	How Long Does a Bug Survive? An Empirical Study. , 2011, , .		27
81	Dynamic object offloading in Web services. , 2011, , .		4
82	Preparing for a new era. Journal of Software: Evolution and Process, 2011, 23, 1-2.	1.1	0
83	Social interactions around cross-system bug fixings. , 2011, , .		31
84	Achievements and challenges in software reverse engineering. Communications of the ACM, 2011, 54, 142-151.	3.3	98
85	Employing Dynamic Object Offloading as a Design Breakthrough for SOA Adoption. Lecture Notes in Computer Science, 2011, , 610-617.	1.0	2
86	2010 ICSE workshop on emerging trends in software metrics. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2010, 35, 51-53.	0.5	3
87	A comprehensive characterization of NLP techniques for identifying equivalent requirements. , 2010, , .		23
88	An empirical comparison of methods to support QoS-aware service selection. , 2010, , .		61
89	An eclectic approach for change impact analysis. , 2010, , .		29
90	Workshop on Emerging Trends in Software Metrics (WETSoM 2010). , 2010, , .		0

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91	A Probabilistic Approach for On-Line Sum-Auditing. , 2010, , .		3
92	An Exploratory Study of Factors Influencing Change Entropy. , 2010, , .		13
93	Using multivariate time series and association rules to detect logical change coupling: An empirical study. , 2010, , .		41
94	The marketplace of user interface real estate. , 2009, , .		0
95	Ldiff: An enhanced line differencing tool. , 2009, , .		38
96	A Bayesian approach for on-line max auditing of dynamic statistical databases. , 2009, , .		2
97	A Bayesian model for disclosure control in statistical databases. Data and Knowledge Engineering, 2009, 68, 1187-1205.	2.1	7
98	Tracking Your Changes: A Language-Independent Approach. IEEE Software, 2009, 26, 50-57.	2.1	38
99	Service-Oriented Architectures Testing: A Survey. Lecture Notes in Computer Science, 2009, , 78-105.	1.0	101
100	A Test Framework for Assessing Effectiveness of the Data Privacy Policy's Implementation into Relational Databases. , 2009, , .		0
101	Dynamic composition of web applications in human-centered processes. , 2009, , .		6
102	Guest Editors' Introduction to the Special Section from the International Conference on Software Maintenance. IEEE Transactions on Software Engineering, 2009, 35, 450-451.	4.3	0
103	A wrapping approach for migrating legacy system interactive functionalities to Service Oriented Architectures. Journal of Systems and Software, 2008, 81, 463-480.	3.3	76
104	A framework for QoS-aware binding and re-binding of composite web services. Journal of Systems and Software, 2008, 81, 1754-1769.	3.3	255
105	A three-layered model to implement data privacy policies. Computer Standards and Interfaces, 2008, 30, 398-409.	3.8	9
106	A Bayesian Approach for on-Line Max Auditing. , 2008, , .		9
107	A Bayesian approach for on-line max and min auditing. , 2008, , .		9
108	Frontiers of reverse engineering: A conceptual model. , 2008, , .		8

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109	A System to Prevent Multi-users and Multi-sessions Attack to Breach Privacy Policies in a Trust-End Filter. , 2008, , .		0
110	Does enforcing anonymity mean decreasing data usefulness?. , 2008, , .		1
111	Reasoning under Uncertainty in On-Line Auditing. Lecture Notes in Computer Science, 2008, , 257-269.	1.0	7
112	An empirical study on the evolution of design patterns. , 2007, , .		61
113	Search-based testing of service level agreements. , 2007, , .		44
114	Modeling business processes in web applications. , 2007, , .		11
115	Identifying Changed Source Code Lines from Version Repositories. , 2007, , .		68
116	A comprehensive design model for integrating business processes in web applications. International Journal of Web Engineering and Technology, 2007, 3, 43.	0.1	20
117	New Frontiers of Reverse Engineering. , 2007, , .		93
118	Evaluating performances of pair designing in industry. Journal of Systems and Software, 2007, 80, 1317-1327.	3.3	52
119	Building measure-based prediction models for UML class diagram maintainability. Empirical Software Engineering, 2007, 12, 517-549.	3.0	64
120	Special issue on Software Engineering and Soft Computing. Soft Computing, 2007, 12, 1-2.	2.1	3
121	Web Services Regression Testing. , 2007, , 205-234.		33
122	Model-Driven Development of Web Applications with UWA, MVC and JavaServer Faces. , 2007, , 457-472.		23
123	Using Concept Lattices to Support Service Selection. International Journal of Web Services Research, 2006, 3, 32-51.	0.5	21
124	Applying a framework for the improvement of software process maturity. Software - Practice and Experience, 2006, 36, 283-304.	2.5	11
125	Technology-driven business evolution. Journal of Systems and Software, 2006, 79, 314-338.	3.3	3
126	FMESP: Framework for the modeling and evaluation of software processes. Journal of Systems Architecture, 2006, 52, 627-639.	2.5	22

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127	Revisiting the $\text{cmmlmath altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/}$	1.5	14
128	Fine grained indexing of software repositories to support impact analysis. , 2006, , .		57
129	Where is bug resolution knowledge stored?. , 2006, , .		2
130	Hiding complexity and heterogeneity of the physical world in smart living environments. , 2006, , .		13
131	Evaluating advantages of test driven development. , 2006, , .		45
132	On the Use of Line Co-change for Identifying Crosscutting Concern Code. , 2006, , .		31
133	HOW DISTRIBUTION AFFECTS THE SUCCESS OF PAIR PROGRAMMING. International Journal of Software Engineering and Knowledge Engineering, 2006, 16, 293-313.	0.6	19
134	Service Composition (re)Binding Driven by Applicationâ€“Specific QoS. Lecture Notes in Computer Science, 2006, , 141-152.	1.0	36
135	Message [Greetings and welcome to IWPSE'05]. , 2005, , .		0
136	A family of experiments to validate metrics for software process models. Journal of Systems and Software, 2005, 77, 113-129.	3.3	62
137	Pair designing as practice for enforcing and diffusing design knowledge. Journal of Software: Evolution and Process, 2005, 17, 401-423.	1.1	22
138	The C-Cube framework. , 2005, , .		3
139	Confirming the influence of educational background in pair-design knowledge through experiments. , 2005, , .		4
140	Developing Java-AWT Thin-Client Applications for Limited Devices. IEEE Internet Computing, 2005, 9, 55-63.	3.2	12
141	An approach for QoS-aware service composition based on genetic algorithms. , 2005, , .		668
142	Using Test Cases as Contract to Ensure Service Compliance Across Releases. Lecture Notes in Computer Science, 2005, , 87-100.	1.0	35
143	A Taxonomy of Information Retrieval Models and Tools. Journal of Computing and Information Technology, 2004, 12, 175.	0.2	20
144	FMESP. , 2004, , .		5

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145	Guest editors' introduction: 2001 international conference on software maintenance. IEEE Transactions on Software Engineering, 2003, 29, 193-194.	4.3	1
146	The importance of dealing with uncertainty in the evaluation of software engineering methods and tools. , 2002, , .		8
147	Introducing eservices in business process models. , 2002, , .		6
148	A visual approach to define XML to FO transformations. , 2002, , .		4
149	Recovering traceability links between code and documentation. IEEE Transactions on Software Engineering, 2002, 28, 970-983.	4.3	749
150	Business process reengineering and workflow automation: a technology transfer experience. Journal of Systems and Software, 2002, 63, 29-44.	3.3	31
151	Automating the management of software maintenance workflows in a large software enterprise: a case study. Journal of Software: Evolution and Process, 2002, 14, 229-255.	1.1	10
152	Decomposing legacy systems into objects: an eclectic approach. Information and Software Technology, 2001, 43, 401-412.	3.0	27
153	Maintaining traceability links during object-oriented software evolution. Software - Practice and Experience, 2001, 31, 331-355.	2.5	34
154	Decomposing legacy programs: a first step towards migrating to client-server platforms. Journal of Systems and Software, 2000, 54, 99-110.	3.3	48
155	A DESIGN RATIONALE BASED ENVIRONMENT FOR COOPERATIVE MAINTENANCE. International Journal of Software Engineering and Knowledge Engineering, 2000, 10, 627-645.	0.6	11
156	AN INCREMENTAL OBJECT-ORIENTED MIGRATION STRATEGY FOR RPG LEGACY SYSTEMS. International Journal of Software Engineering and Knowledge Engineering, 1999, 09, 5-25.	0.6	12
157	A System for Generating Reverse Engineering Tools: A Case Study of Software Modularisation. Automated Software Engineering, 1999, 6, 233-263.	2.2	2
158	Conditioned program slicing. Information and Software Technology, 1998, 40, 595-607.	3.0	151
159	An integrated environment for reuse reengineering C code. Journal of Systems and Software, 1998, 42, 153-164.	3.3	19
160	An extensible system for source code analysis. IEEE Transactions on Software Engineering, 1998, 24, 721-740.	4.3	20
161	Assessing modularization and code scavenging techniques. Journal of Software: Evolution and Process, 1995, 7, 317-331.	0.5	13
162	RE2: Reverse-engineering and reuse re-engineering. Journal of Software: Evolution and Process, 1994, 6, 53-72.	0.5	51

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163	A reverse engineering process for design level document production from ADA code. Information and Software Technology, 1993, 35, 23-34.	3.0	3
164	A logic-based approach to reverse engineering tools production. IEEE Transactions on Software Engineering, 1992, 18, 1053-1064.	4.3	50
165	Reverse-engineering and intermodular data flow: A theoretical approach. Journal of Software: Evolution and Process, 1992, 4, 37-59.	0.5	7
166	A reverse engineering process for design level document production from ADA code. Microprocessors and Microsystems, 1991, 15, 531-542.	1.8	0
167	Reverse engineering and data flow diagrams in ADA environment. Microprocessing and Microprogramming, 1990, 30, 357-364.	0.3	6