

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	Recovering traceability links between code and documentation. IEEE Transactions on Software Engineering, 2002, 28, 970-983.	4.3	749
2	An approach for QoS-aware service composition based on genetic algorithms. , 2005, , .		668
3	How can i improve my app? Classifying user reviews for software maintenance and evolution. , 2015, , .		292
4	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
5	What would users change in my app? summarizing app reviews for recommending software changes. , 2016, , .		177
6	Conditioned program slicing. Information and Software Technology, 1998, 40, 595-607.	3.0	151
7	Multi-objective Cross-Project Defect Prediction. , 2013, , .		126
8	Who is going to mentor newcomers in open source projects?. , 2012, , .		105
9	Service-Oriented Architectures Testing: A Survey. Lecture Notes in Computer Science, 2009, , 78-105.	1.0	101
10	Achievements and challenges in software reverse engineering. Communications of the ACM, 2011, 54, 142-151.	3.3	98
11	New Frontiers of Reverse Engineering. , 2007, , .		93
12	How the Apache community upgrades dependencies: an evolutionary study. Empirical Software Engineering, 2015, 20, 1275-1317.	3.0	93
13	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
14	Detecting Android malware using sequences of system calls. , 2015, , .		91
15	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
16	How Open Source Projects Use Static Code Analysis Tools in Continuous Integration Pipelines. , 2017, , .		82
17	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
18	Effectiveness of Opcode ngrams for Detection of Multi Family Android Malware. , 2015, , .		75

#	ARTICLE	IF	CITATIONS
19	Automatic generation of release notes. , 2014, , .		73
20	ARENA: An Approach for the Automated Generation of Release Notes. IEEE Transactions on Software Engineering, 2017, 43, 106-127.	4.3	69
21	Identifying Changed Source Code Lines from Version Repositories. , 2007, , .		68
22	ARdoc: app reviews development oriented classifier. , 2016, , .		67
23	Mining source code descriptions from developer communications. , 2012, , .		65
24	The Evolution of Project Inter-dependencies in a Software Ecosystem: The Case of Apache. , 2013, , .		65
25	Building measure-based prediction models for UML class diagram maintainability. Empirical Software Engineering, 2007, 12, 517-549.	3.0	64
26	Development Emails Content Analyzer: Intention Mining in Developer Discussions (T). , 2015, , .		64
27	A family of experiments to validate metrics for software process models. Journal of Systems and Software, 2005, 77, 113-129.	3.3	62
28	An HMM and structural entropy based detector for Android malware: An empirical study. Computers and Security, 2016, 61, 1-18.	4.0	62
29	An empirical study on the evolution of design patterns. , 2007, , .		61
30	An empirical comparison of methods to support QoS-aware service selection. , 2010, , .		61
31	Defect prediction as a multiobjective optimization problem. Software Testing Verification and Reliability, 2015, 25, 426-459.	1.7	59
32	Fine grained indexing of software repositories to support impact analysis. , 2006, , .		57
33	CODES: mining source code descriptions from developers discussions. , 2014, , .		53
34	Evaluating performances of pair designing in industry. Journal of Systems and Software, 2007, 80, 1317-1327.	3.3	52
35	RE2: Reverse-engineering and reuse re-engineering. Journal of Software: Evolution and Process, 1994, 6, 53-72.	0.5	51
36	A Classifier of Malicious Android Applications. , 2013, , .		51

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37	A logic-based approach to reverse engineering tools production. IEEE Transactions on Software Engineering, 1992, 18, 1053-1064.	4.3	50
38	How changes affect software entropy: an empirical study. Empirical Software Engineering, 2014, 19, 1-38.	3.0	50
39	SURF: Summarizer of User Reviews Feedback. , 2017, , .		50
40	Ticket Tagger: Machine Learning Driven Issue Classification. , 2019, , .		50
41	Decomposing legacy programs: a first step towards migrating to clientâ€‘server platforms. Journal of Systems and Software, 2000, 54, 99-110.	3.3	48
42	Evaluating advantages of test driven development. , 2006, , .		45
43	Search-based testing of service level agreements. , 2007, , .		44
44	Predicting issue types on GitHub. Science of Computer Programming, 2021, 205, 102598.	1.5	44
45	LEILA: Formal Tool for Identifying Mobile Malicious Behaviour. IEEE Transactions on Software Engineering, 2019, 45, 1230-1252.	4.3	43
46	An empirical characterization of bad practices in continuous integration. Empirical Software Engineering, 2020, 25, 1095-1135.	3.0	42
47	Using multivariate time series and association rules to detect logical change coupling: An empirical study. , 2010, , .		41
48	Ldiff: An enhanced line differencing tool. , 2009, , .		38
49	Tracking Your Changes: A Language-Independent Approach. IEEE Software, 2009, 26, 50-57.	2.1	38
50	Summarizing vulnerabilitiesâ€™ descriptions to support experts during vulnerability assessment activities. Journal of Systems and Software, 2019, 156, 84-99.	3.3	38
51	Android apps and user feedback: a dataset for software evolution and quality improvement. , 2017, , .		36
52	Service Composition (re)Binding Driven by Applicationâ€™Specific QoS. Lecture Notes in Computer Science, 2006, , 141-152.	1.0	36
53	Using Test Cases as Contract to Ensure Service Compliance Across Releases. Lecture Notes in Computer Science, 2005, , 87-100.	1.0	35
54	Maintaining traceability links during object-oriented software evolution. Software - Practice and Experience, 2001, 31, 331-355.	2.5	34

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55	Web Services Regression Testing. , 2007, , 205-234.		33
56	How Developers' Collaborations Identified from Different Sources Tell Us about Code Changes. , 2014, , .		32
57	Acquiring and Analyzing App Metrics for Effective Mobile Malware Detection. , 2016, , .		32
58	Mobile Malware Detection using Op-code Frequency Histograms. , 2015, , .		32
59	Business process reengineering and workflow automation: a technology transfer experience. Journal of Systems and Software, 2002, 63, 29-44.	3.3	31
60	On the Use of Line Co-change for Identifying Crosscutting Concern Code. , 2006, , .		31
61	Social interactions around cross-system bug fixings. , 2011, , .		31
62	Obfuscation Techniques against Signature-Based Detection: A Case Study. , 2015, , .		31
63	Composition-Malware: Building Android Malware at Run Time. , 2015, , .		30
64	An eclectic approach for change impact analysis. , 2010, , .		29
65	Decomposing legacy systems into objects: an eclectic approach. Information and Software Technology, 2001, 43, 401-412.	3.0	27
66	How Long Does a Bug Survive? An Empirical Study. , 2011, , .		27
67	Metamorphic Malware Detection Using Code Metrics. Information Security Journal, 2014, 23, 57-67.	1.3	26
68	Estimating the number of remaining links in traceability recovery. Empirical Software Engineering, 2017, 22, 996-1027.	3.0	26
69	Mobile malware detection in the real world. , 2016, , .		25
70	A Study on the Interplay between Pull Request Review and Continuous Integration Builds. , 2019, , .		24
71	A comprehensive characterization of NLP techniques for identifying equivalent requirements. , 2010, , .		23
72	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

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73	Model-Driven Development of Web Applications with UWA, MVC and JavaServer Faces. , 2007, , 457-472.		23
74	Pair designing as practice for enforcing and diffusing design knowledge. Journal of Software: Evolution and Process, 2005, 17, 401-423.	1.1	22
75	FMESP: Framework for the modeling and evaluation of software processes. Journal of Systems Architecture, 2006, 52, 627-639.	2.5	22
76	Using Concept Lattices to Support Service Selection. International Journal of Web Services Research, 2006, 3, 32-51.	0.5	21
77	An extensible system for source code analysis. IEEE Transactions on Software Engineering, 1998, 24, 721-740.	4.3	20
78	A Taxonomy of Information Retrieval Models and Tools. Journal of Computing and Information Technology, 2004, 12, 175.	0.2	20
79	A comprehensive design model for integrating business processes in web applications. International Journal of Web Engineering and Technology, 2007, 3, 43.	0.1	20
80	DECA. , 2016, , .		20
81	Detecting Video Game-Specific Bad Smells in Unity Projects. , 2020, , .		20
82	An integrated environment for reuse reengineering C code. Journal of Systems and Software, 1998, 42, 153-164.	3.3	19
83	HOW DISTRIBUTION AFFECTS THE SUCCESS OF PAIR PROGRAMMING. International Journal of Software Engineering and Knowledge Engineering, 2006, 16, 293-313.	0.6	19
84	Do Developers Introduce Bugs When They Do Not Communicate? The Case of Eclipse and Mozilla. , 2012, , .		19
85	How the evolution of emerging collaborations relates to code changes: an empirical study. , 2014, , .		19
86	Profiling gas consumption in solidity smart contracts. Journal of Systems and Software, 2022, 186, 111193.	3.3	15
87	Revisiting the cmml:math 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
88	A Case Study of Automating User Experience-Oriented Performance Testing on Smartphones. , 2013, , .		14
89	Exploiting Natural Language Structures in Software Informal Documentation. IEEE Transactions on Software Engineering, 2019, , 1-1.	4.3	14
90	Assessing modularization and code scavenging techniques. Journal of Software: Evolution and Process, 1995, 7, 317-331.	0.5	13

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91	Hiding complexity and heterogeneity of the physical world in smart living environments. , 2006, , .		13
92	An Exploratory Study of Factors Influencing Change Entropy. , 2010, , .		13
93	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
94	Developing Java-AWT Thin-Client Applications for Limited Devices. IEEE Internet Computing, 2005, 9, 55-63.	3.2	12
95	Recommending refactorings based on team co-maintenance patterns. , 2014, , .		12
96	A DESIGN RATIONALE BASED ENVIRONMENT FOR COOPERATIVE MAINTENANCE. International Journal of Software Engineering and Knowledge Engineering, 2000, 10, 627-645.	0.6	11
97	Applying a framework for the improvement of software process maturity. Software - Practice and Experience, 2006, 36, 283-304.	2.5	11
98	Modeling business processes in web applications. , 2007, , .		11
99	Detection of Malicious Web Pages Using System Calls Sequences. Lecture Notes in Computer Science, 2014, , 226-238.	1.0	11
100	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
101	Beacon-based context-aware architecture for crowd sensing public transportation scheduling and user habits. Procedia Computer Science, 2017, 109, 1110-1115.	1.2	10
102	Demystifying the adoption of behavior-driven development in open source projects. Information and Software Technology, 2020, 123, 106311.	3.0	10
103	A three-layered model to implement data privacy policies. Computer Standards and Interfaces, 2008, 30, 398-409.	3.8	9
104	A Bayesian Approach for on-Line Max Auditing. , 2008, , .		9
105	A Bayesian approach for on-line max and min auditing. , 2008, , .		9
106	Enabling Advanced Loading Strategies for Data Intensive Web Services. , 2012, , .		9
107	A Hidden Markov Model to detect coded information islands in free text. , 2013, , .		9
108	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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109	The relation between developers' communication and fix-inducing changes: An empirical study. <i>Journal of Systems and Software</i> , 2018, 140, 111-125.	3.3	9
110	'Won't We Fix this Issue?' Qualitative characterization and automated identification of wontfix issues on GitHub. <i>Information and Software Technology</i> , 2021, 139, 106665.	3.0	9
111	An NLP-based Tool for Software Artifacts Analysis. , 2021, , .		9
112	The importance of dealing with uncertainty in the evaluation of software engineering methods and tools. , 2002, , .		8
113	Frontiers of reverse engineering: A conceptual model. , 2008, , .		8
114	An Empirical Investigation on Documentation Usage Patterns in Maintenance Tasks. , 2013, , .		8
115	Investigating the vulnerability fixing process in OSS projects: Peculiarities and challenges. <i>Computers and Security</i> , 2020, 99, 102067.	4.0	8
116	Reverse-engineering and intermodular data flow: A theoretical approach. <i>Journal of Software: Evolution and Process</i> , 1992, 4, 37-59.	0.5	7
117	A Bayesian model for disclosure control in statistical databases. <i>Data and Knowledge Engineering</i> , 2009, 68, 1187-1205.	2.1	7
118	Evaluating Op-Code Frequency Histograms in Malware and Third-Party Mobile Applications. <i>Communications in Computer and Information Science</i> , 2016, , 201-222.	0.4	7
119	Reasoning under Uncertainty in On-Line Auditing. <i>Lecture Notes in Computer Science</i> , 2008, , 257-269.	1.0	7
120	Reverse engineering and data flow diagrams in ADA environment. <i>Microprocessing and Microprogramming</i> , 1990, 30, 357-364.	0.3	6
121	Introducing eservices in business process models. , 2002, , .		6
122	Dynamic composition of web applications in human-centered processes. , 2009, , .		6
123	Reasoning under uncertainty and multi-criteria decision making in data privacy. <i>Quality and Quantity</i> , 2014, 48, 1957-1972.	2.0	6
124	FMESP. , 2004, , .		5
125	An approach for restructuring text content. , 2013, , .		5
126	YODA: Young and newComer Developer Assistant. , 2013, , .		5

#	ARTICLE	IF	CITATIONS
127	A Nlp-based Solution to Prevent from Privacy Leaks in Social Network Posts. , 2018, , .		5
128	A visual approach to define XML to FO transformations. , 2002, , .		4
129	Confirming the influence of educational background in pair-design knowledge through experiments. , 2005, , .		4
130	Dynamic object offloading in Web services. , 2011, , .		4
131	Software: evolution and process A new journal is born. Journal of Software: Evolution and Process, 2012, 24, 1-1.	1.2	4
132	Irish: A Hidden Markov Model to detect coded information islands in free text. Science of Computer Programming, 2015, 105, 26-43.	1.5	4
133	Ransomware at X-Rays. , 2017, , .		4
134	Silent and Continuous Authentication in Mobile Environment. , 2016, , .		4
135	A reverse engineering process for design level document production from ADA code. Information and Software Technology, 1993, 35, 23-34.	3.0	3
136	The C-Cube framework. , 2005, , .		3
137	Technology-driven business evolution. Journal of Systems and Software, 2006, 79, 314-338.	3.3	3
138	Special issue on Software Engineering and Soft Computing. Soft Computing, 2007, 12, 1-2.	2.1	3
139	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
140	A Probabilistic Approach for On-Line Sum-Auditing. , 2010, , .		3
141	Patchworking: Exploring the code changes induced by vulnerability fixing activities. Information and Software Technology, 2022, 142, 106745.	3.0	3
142	A System for Generating Reverse Engineering Tools: A Case Study of Software Modularisation. Automated Software Engineering, 1999, 6, 233-263.	2.2	2
143	Where is bug resolution knowledge stored?. , 2006, , .		2
144	A Bayesian approach for on-line max auditing of dynamic statistical databases. , 2009, , .		2

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145	Efficient data-intensive event-driven interaction in SOA. , 2013, , .		2
146	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
147	Employing Dynamic Object Offloading as a Design Breakthrough for SOA Adoption. Lecture Notes in Computer Science, 2011, , 610-617.	1.0	2
148	How I Met Your Mother? - An Empirical Study about Android Malware Phylogenesis. , 2016, , .		2
149	Guest editors' introduction: 2001 international conference on software maintenance. IEEE Transactions on Software Engineering, 2003, 29, 193-194.	4.3	1
150	Does enforcing anonymity mean decreasing data usefulness?. , 2008, , .		1
151	Migrating Android Applications towards Service-centric Architectures with Sip2Share. , 2013, , .		1
152	Towards Effective Event-Driven SOA in Enterprise Systems. , 2013, , .		1
153	Estimating the number of remaining links in traceability recovery (journal-first abstract). , 2018, , .		1
154	A Methodology for Silent and Continuous Authentication in Mobile Environment. Communications in Computer and Information Science, 2017, , 241-265.	0.4	1
155	A reverse engineering process for design level document production from ADA code. Microprocessors and Microsystems, 1991, 15, 531-542.	1.8	0
156	Message [Greetings and welcome to IWPSE'05]. , 2005, , .		0
157	A System to Prevent Multi-users and Multi-sessions Attack to Breach Privacy Policies in a Trust-End Filter. , 2008, , .		0
158	The marketplace of user interface real estate. , 2009, , .		0
159	A Test Framework for Assessing Effectiveness of the Data Privacy Policy's Implementation into Relational Databases. , 2009, , .		0
160	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
161	Workshop on Emerging Trends in Software Metrics (WETSoM 2010). , 2010, , .		0
162	Preparing for a new era. Journal of Software: Evolution and Process, 2011, 23, 1-2.	1.1	0

#	ARTICLE	IF	CITATIONS
163	Welcome to 3rd International Workshop on Emerging Trends in Software Metrics (WETSoM 2012). , 2012, , .		0
164	Autonomic Workflow and Business Process Modelling for Networked Enterprises. Lecture Notes in Computer Science, 2012, , 115-142.	1.0	0
165	Improving data-intensive EDA performance with annotation-driven laziness. Science of Computer Programming, 2015, 97, 266-279.	1.5	0
166	A probabilistic approach for disclosure risk assessment in statistical databases. Quality and Quantity, 2016, 50, 729-749.	2.0	0
167	Editorial: A five year retrospective. Journal of Software: Evolution and Process, 2017, 29, e1854.	1.2	0