

# Inmaculada Medina-Bulo

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

819  
citations

567144

15  
h-index

580701

25  
g-index

82  
all docs

82  
docs citations

82  
times ranked

590  
citing authors

#	ARTICLE	IF	CITATIONS
1	IoT-TEG 4.0: A New Approach 4.0 for Test Event Generation. IEEE Transactions on Reliability, 2022, 71, 1368-1380.	3.5	0
2	Mutation testing in the wild: findings from GitHub. Empirical Software Engineering, 2022, 27, .	3.0	6
3	Performance mutation testing. Software Testing Verification and Reliability, 2021, 31, e1728.	1.7	10
4	Fall Detection from Electrocardiogram (ECG) Signals and Classification by Deep Transfer Learning. Information (Switzerland), 2021, 12, 63.	1.7	14
5	MEdit4CEP-SP: A model-driven solution to improve decision-making through user-friendly management and real-time processing of heterogeneous data streams. Knowledge-Based Systems, 2021, 213, 106682.	4.0	15
6	Mutation Testing and Self/Peer Assessment: Analyzing their Effect on Students in a Software Testing Course. , 2021, , .		2
7	Model Translation from Papyrus-RT into the nuXmv Model Checker. Lecture Notes in Computer Science, 2021, , 3-20.	1.0	4
8	Guest Editorial: Special Section on ICTSS. Information and Software Technology, 2020, 118, 106222.	3.0	0
9	Customizable and scalable automated assessment of C/C++ programming assignments. Computer Applications in Engineering Education, 2020, 28, 1449-1466.	2.2	13
10	A Wearable Fall Detection System Based on Body Area Networks. IEEE Access, 2020, 8, 193060-193074.	2.6	14
11	A stream processing architecture for heterogeneous data sources in the Internet of Things. Computer Standards and Interfaces, 2020, 70, 103426.	3.8	44
12	A systematic literature review of the SBSE research community in Spain. Progress in Artificial Intelligence, 2020, 9, 113-128.	1.5	3
13	Mutation Operators for Google Query Language. Communications in Computer and Information Science, 2020, , 354-365.	0.4	0
14	Evolutionary mutation testing for IoT with recorded and generated events. Software - Practice and Experience, 2019, 49, 640-672.	2.5	18
15	Software Testing: Cost Reduction in Industry 4.0. , 2019, , .		3
16	Coverage-based quality metric of mutation operators for test suite improvement. Software Quality Journal, 2019, 27, 823-859.	1.4	12
17	Test Event Generation for a Fall-Detection IoT System. IEEE Internet of Things Journal, 2019, 6, 6642-6651.	5.5	29
18	Using Constraint Solvers to Support Metamorphic Testing. , 2019, , .		3

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19	Mutation Testing Applied to Object-Oriented Languages. Advances in Computer and Electrical Engineering Book Series, 2019, , 1426-1438.	0.2	0
20	Using Genetic Algorithms to Generate Test Suites for FSMs. Lecture Notes in Computer Science, 2019, , 741-752.	1.0	5
21	Evaluation of Mutation Testing in a Nuclear Industry Case Study. IEEE Transactions on Reliability, 2018, 67, 1406-1419.	3.5	14
22	Performance mutation testing: Hypothesis and open questions. Information and Software Technology, 2018, 103, 159-161.	3.0	6
23	On the feasibility of using hybrid evolutionary dynamic optimization for optimal monitor selection in dynamic communication networks. , 2018, , .		0
24	Search-based mutant selection for efficient test suite improvement: Evaluation and results. Information and Software Technology, 2018, 104, 130-143.	3.0	13
25	Test suite minimization for mutation testing of WS-BPEL compositions. , 2018, , .		6
26	Combining Case-Based Reasoning with Complex Event Processing for Network Traffic Classification. Lecture Notes in Computer Science, 2018, , 110-123.	1.0	0
27	Mutation Testing Applied to Object-Oriented Languages. , 2018, , 7459-7469.		0
28	Assessment of C++ object-oriented mutation operators: A selective mutation approach. Software Testing Verification and Reliability, 2017, 27, e1630.	1.7	22
29	Using Evolutionary Mutation Testing to improve the quality of test suites. , 2017, , .		4
30	Assessment of class mutation operators for C<math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mo>+</mml:mo><mml:mo>+</mml:mo></mml:mrow></math> with the MuCPP mutation system. Information and Software Technology, 2017, 81, 169-184.	3.0	40
31	A Hybrid Algorithm for Optimal Wireless Sensor Network Deployment with the Minimum Number of Sensor Nodes. Algorithms, 2017, 10, 80.	1.2	26
32	Using Evolutionary Computation to Improve Mutation Testing. Lecture Notes in Computer Science, 2017, , 381-391.	1.0	1
33	Preventing Health Risks Caused by Unhealthy Air Quality Using a CEP-Based SOA 2.0. Advances in Medical Technologies and Clinical Practice Book Series, 2017, , 170-196.	0.3	0
34	GiGAn. , 2017, , .		6
35	Local programming language barriers in stream-based systems. , 2016, , .		0
36	Local parallelization of pleasingly parallel stream processing on multiple CPU cores. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	Maintaining Genetic Diversity in Multimodal Evolutionary Algorithms using Population Injection. , 2016, , .		2
38	Two Case Studies on Generating Administrative Process Applications with AdminDSL. Lecture Notes in Business Information Processing, 2016, , 96-116.	0.8	0
39	Model4CEP: Graphical domain-specific modeling languages for CEP domains and event patterns. Expert Systems With Applications, 2015, 42, 8095-8110.	4.4	77
40	Quality metrics for mutation testing with applications to WSâ€BPEL compositions. Software Testing Verification and Reliability, 2015, 25, 536-571.	1.7	19
41	Improving network traffic acquisition and processing with the Java Virtual Machine. , 2015, , .		3
42	Class mutation operators for C++ object-oriented systems. Annales Des Telecommunications/Annals of Telecommunications, 2015, 70, 137-148.	1.6	15
43	MEdit4CEP: A model-driven solution for real-time decision making in SOA 2.0. Knowledge-Based Systems, 2015, 89, 97-112.	4.0	51
44	Monitoring traffic in computer networks with dynamic distributed remote packet capturing. , 2015, , .		9
45	Using Genetic Algorithms for Deadline-Constrained Monitor Selection in Dynamic Computer Networks. , 2015, , .		9
46	Mutation Testing. , 2015, , 7212-7221.		3
47	Domain-Specific Language for Generating Administrative Process Applications. , 2015, , .		1
48	Assessment of collaborative learning experiences by graphical analysis of wiki contributions. Interactive Learning Environments, 2014, 22, 444-466.	4.4	20
49	Towards an Integrated SOA-Based Architecture for Interoperable and Responsive Manufacturing Systems Using the ISA-95 Object Model. Key Engineering Materials, 2014, 615, 145-156.	0.4	1
50	Exact scalable sensitivity analysis for the next release problem. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-31.	4.8	29
51	A model-driven approach for facilitating user-friendly design of complex event patterns. Expert Systems With Applications, 2014, 41, 445-456.	4.4	26
52	Automatic dynamic generation of likely invariants for WS-BPEL compositions. Expert Systems With Applications, 2014, 41, 5041-5055.	4.4	2
53	Header Field Based Partitioning of Network Traffic for Distributed Packet Capturing and Processing. , 2014, , .		6
54	Bridging the Gap between Low-Level Network Traffic Data Acquisition and Higher-Level Frameworks. , 2014, , .		5

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55	Scalability of assessments of wiki-based learning experiences in higher education. Computers in Human Behavior, 2014, 31, 638-650.	5.1	12
56	PTTAC: Passive Testing Tool for Asynchronous Systems. , 2014, , .		1
57	A Framework for Genetic Test-Case Generation for WS-BPEL Compositions. Lecture Notes in Computer Science, 2014, , 1-16.	1.0	7
58	Approaching the Internet of Things through Integrating SOA and Complex Event Processing. Advances in Web Technologies and Engineering Book Series, 2014, , 304-323.	0.4	10
59	Towards an Integrated SOA-based Architecture for Interoperable and Responsive Manufacturing Systems. Procedia Engineering, 2013, 63, 123-132.	1.2	5
60	A Model-Driven Approach for Web Service Adaptation Using Complex Event Processing. Communications in Computer and Information Science, 2013, , 346-359.	0.4	0
61	An Approach for Model-Driven Design and Generation of Performance Test Cases with UML and MARTE. Communications in Computer and Information Science, 2013, , 136-150.	0.4	1
62	Complex event processing applied to early maritime threat detection. , 2012, , .		5
63	Hierarchical events for efficient distributed network analysis and surveillance. , 2012, , .		6
64	Mutation Testing of Event Processing Queries. , 2012, , .		5
65	Application of Metamorphic Testing to a Case Study in Web Services Compositions. Communications in Computer and Information Science, 2012, , 168-181.	0.4	6
66	Model-Driven Design of Performance Requirements. , 2011, , .		0
67	Evolutionary mutation testing. Information and Software Technology, 2011, 53, 1108-1123.	3.0	45
68	Analogies and Differences between Mutation Operators for WS-BPEL 2.0 and Other Languages. , 2011, , .		10
69	EUnit: A Unit Testing Framework for Model Management Tasks. Lecture Notes in Computer Science, 2011, , 395-409.	1.0	18
70	A verified Common Lisp implementation of Buchberger's algorithm in ACL2. Journal of Symbolic Computation, 2010, 45, 96-123.	0.5	9
71	GAMERA: A Tool for WS-BPEL Composition Testing Using Mutation Analysis. Lecture Notes in Computer Science, 2010, , 490-493.	1.0	3
72	Quantitative Evaluation of Mutation Operators for WS-BPEL Compositions. , 2010, , .		20

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73	Takuan: A Tool for WS-BPEL Composition Testing Using Dynamic Invariant Generation. Lecture Notes in Computer Science, 2010, , 531-534.	1.0	2
74	GAMERA: An Automatic Mutant Generation System for WS-BPEL Compositions. , 2009, , .		18
75	Hypertext navigation of ACL2 proofs with XMLEye. , 2009, , .		1
76	A Framework for Mutant Genetic Generation for WS-BPEL. Lecture Notes in Computer Science, 2009, , 229-240.	1.0	6
77	Enhancing WS-BPEL Dynamic Invariant Generation Using XML Schema and XPath Information. Lecture Notes in Computer Science, 2009, , 469-472.	1.0	1
78	Takuan: A Dynamic Invariant Generation System for WS-BPEL Compositions. , 2008, , .		8
79	Improving Takuan to Analyze a Meta-Search Engine WS-BPEL Composition. , 2008, , .		3
80	Towards Event-Driven Context-Aware Web Services. Advances in Web Technologies and Engineering Book Series, 0, , 148-159.	0.4	3
81	Mutation-inspired symbolic execution for software testing. IET Software, 0, , .	1.5	0