

# Durga Prasad Mohapatra

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

581  
citations

759233

12  
h-index

794594

19  
g-index

83  
all docs

83  
docs citations

83  
times ranked

273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test Case Generation Based on State and Activity Models.. Journal of Object Technology, 2010, 9, 1.	0.9	50
2	Test Case Generation from Behavioral UML Models. International Journal of Computer Applications, 2010, 6, 5-11.	0.2	34
3	A LSTM-FCNN based multi-class intrusion detection using scalable framework. Computers and Electrical Engineering, 2022, 99, 107720.	4.8	32
4	A novel approach of test case generation for concurrent systems using UML Sequence Diagram. , 2011, , .		24
5	An improved distributed concolic testing approach. Software - Practice and Experience, 2017, 47, 311-342.	3.6	20
6	Computing dynamic slices of concurrent object-oriented programs. Information and Software Technology, 2005, 47, 805-817.	4.4	19
7	An Ensemble-Based Scalable Approach for Intrusion Detection Using Big Data Framework. Big Data, 2021, 9, 303-321.	3.4	19
8	J3 Model: A novel framework for improved Modified Condition/Decision Coverage analysis. Computer Standards and Interfaces, 2017, 50, 1-17.	5.4	18
9	An SVM-Based Ensemble Approach for Intrusion Detection. International Journal of Information Technology and Web Engineering, 2019, 14, 66-84.	1.6	18
10	GECOJAP: A novel source-code preprocessing technique to improve code coverage. Computer Standards and Interfaces, 2018, 55, 27-46.	5.4	17
11	Making a concolic tester achieve increased MC/DC. Innovations in Systems and Software Engineering, 2016, 12, 319-332.	2.1	16
12	Multi-objective test prioritization via a genetic algorithm. Innovations in Systems and Software Engineering, 2014, 10, 261-270.	2.1	15
13	Enhanced modified condition/decision coverage using exclusive-nor code transformer. , 2013, , .		13
14	Risk analysis: a guiding force in the improvement of testing. IET Software, 2013, 7, 29-46.	2.1	13
15	Software fault localization using BP neural network based on function and branch coverage. Evolutionary Intelligence, 2021, 14, 87-104.	3.6	13
16	A model based prioritization technique for component based software retesting using uml state chart diagram. , 2011, , .		12
17	Prioritizing test scenarios from UML communication and activity diagrams. Innovations in Systems and Software Engineering, 2014, 10, 165-180.	2.1	12
18	Scaling modified condition/decision coverage using distributed concolic testing for Java programs. Computer Standards and Interfaces, 2018, 59, 61-86.	5.4	12

#	ARTICLE	IF	CITATIONS
19	Model based test case prioritization using UML behavioural diagrams and association rule mining. International Journal of Systems Assurance Engineering and Management, 2018, 9, 1063-1079.	2.4	10
20	Context Sensitive Dynamic Slicing of Concurrent Aspect-Oriented Programs. , 2014, , .		9
21	Sentiment analysis for Odia language using supervised classifier: an information retrieval in Indian language initiative. CSI Transactions on ICT, 2016, 4, 111-115.	1.0	9
22	Combi-FL: Neural network and SBFL based fault localization using mutation analysis. Journal of Computer Languages, 2021, 66, 101064.	2.1	9
23	Effective Software Fault Localization Using a Back Propagation Neural Network. Advances in Intelligent Systems and Computing, 2020, , 513-526.	0.6	9
24	Dynamic slicing of distributed Aspect-Oriented Programs: A context-sensitive approach. Computer Standards and Interfaces, 2017, 52, 71-84.	5.4	8
25	Validating object-oriented software at design phase by achieving MC/DC. International Journal of Systems Assurance Engineering and Management, 2019, 10, 811-823.	2.4	8
26	An Automated Analysis of the Branch Coverage and Energy Consumption Using Concolic Testing. Arabian Journal for Science and Engineering, 2017, 42, 619-637.	3.0	7
27	MC/DC guided Test Sequence Prioritization using Firefly Algorithm. Evolutionary Intelligence, 2021, 14, 105-118.	3.6	7
28	BOOMPizer: Minimization and prioritization of CONCOLIC based boosted MC/DC test cases. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 9757-9776.	3.9	7
29	A Node-Marking Technique for Dynamic Slicing of Aspect-Oriented Programs. , 2007, , .		6
30	Source Code Prioritization Using Forward Slicing for Exposing Critical Elements in a Program. Journal of Computer Science and Technology, 2011, 26, 314-327.	1.5	6
31	ACCo: a novel approach to measure cohesion using hierarchical slicing of Java programs. Innovations in Systems and Software Engineering, 2015, 11, 243-260.	2.1	6
32	Generating and evaluating effectiveness of test sequences using state machine. International Journal of Systems Assurance Engineering and Management, 2017, 8, 242-252.	2.4	6
33	Dynamic slicing of concurrent AspectJ programs: An explicit context-sensitive approach. Software - Practice and Experience, 2018, 48, 233-260.	3.6	6
34	ABCE: A Novel Framework for Improved Branch Coverage Analysis. Procedia Computer Science, 2015, 62, 266-273.	2.0	5
35	Model Based Test Case Prioritization Using Association Rule Mining. Smart Innovation, Systems and Technologies, 2015, , 429-440.	0.6	5
36	Automated Test Case Generation and Optimization : A Comparative Review. International Journal of Computer Science and Information Technology, 2016, 8, 19-32.	0.6	5

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37	Towards Agile Mutation Testing Using Branch Coverage Based Prioritization Technique. Lecture Notes in Business Information Processing, 2022, , 150-169.	1.0	5
38	Slicing-based test case generation using UML 2.0 sequence diagram. International Journal of Computational Intelligence Studies, 2014, 3, 221.	0.3	4
39	Computing Dynamic Slices of Feature-Oriented Programs Using Execution Trace File. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2017, 42, 1-16.	0.7	4
40	An approach for dynamic web application testing using MBT. International Journal of Systems Assurance Engineering and Management, 2017, 8, 1704-1716.	2.4	4
41	Predicting Software Reliability using Computational Intelligence Techniques: A Review. , 2018, , .		4
42	Achieving MC/DC using UML Communication Diagram. , 2018, , .		4
43	Reliability Improvement Based on Prioritization of Source Code. Lecture Notes in Computer Science, 2010, , 212-223.	1.3	4
44	Java-HCT: An approach to increase MC/DC using Hybrid Concolic Testing for Java programs. , 0, , .		4
45	Firefly optimization technique based test scenario generation and prioritization. Journal of Applied Research and Technology, 2018, 16, .	0.9	4
46	NITIDS: a robust network intrusion dataset. International Journal of Embedded Systems, 2021, 14, 391.	0.3	4
47	A scheme to prioritize classes at the early stage for improving observable reliability. , 2010, , .		3
48	Code-based prioritization: a pre-testing effort to minimize post-release failures. Innovations in Systems and Software Engineering, 2012, 8, 279-292.	2.1	3
49	Green-JEXJ: A new tool to measure energy consumption of improved concolic testing. , 2015, , .		3
50	Measuring MC/DC at design phase using UML sequence diagram and concolic testing. , 2016, , .		3
51	Computing Dynamic Slices of Concurrent Feature-Oriented Programs. Arabian Journal for Science and Engineering, 2019, 44, 9471-9497.	3.0	3
52	Test scenario prioritization for object-oriented systems using UML diagram. International Journal of Systems Assurance Engineering and Management, 2019, 10, 316-325.	2.4	3
53	Prioritizing Program Elements: A Pretesting Effort to Improve Software Quality. , 2012, 2012, 1-20.		3
54	Code refactoring using slice-based cohesion metrics and aspect-oriented programming. International Journal of Business Information Systems, 2018, 27, 45.	0.2	3

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55	Software Fault Prediction Using Random Forests. Smart Innovation, Systems and Technologies, 2021, , 95-103.	0.6	3
56	Schedulability analysis of task scheduling in multiprocessor real-time systems using EDF algorithm. , 2012, , .		2
57	Model-based test-case generation for Simulink/Stateflow using dependency graph approach. , 2013, , .		2
58	Test case generation for concurrent systems using UML activity diagram. , 2016, , .		2
59	Functionality Testing of Object-Oriented Software Using UML State Machine Diagram. , 2018, , .		2
60	Modified Grey Wolf Optimization(GWO) based Accident Deterrence in Internet of Things (IoT) enabled Mining Industry. , 2020, , .		2
61	Test scenario prioritization from user requirements for web-based software. International Journal of Systems Assurance Engineering and Management, 2021, 12, 361-376.	2.4	2
62	Data flow testing of feature-oriented programs. International Journal of Systems Assurance Engineering and Management, 2022, 13, 2291-2306.	2.4	2
63	Agility Based Coverage Improvement. Lecture Notes in Business Information Processing, 2022, , 170-186.	1.0	2
64	Interprocedural Slicing of Generic Programs. , 2009, , .		1
65	Intermediate mode scheduling in computational grid. , 2014, , .		1
66	ACO based embedded system testing using UML Activity Diagram. , 2016, , .		1
67	ELM-MVD: An Extreme Learning Machine Trained Model for Malware Variants Detection. Communications in Computer and Information Science, 2020, , 283-292.	0.5	1
68	Regression testing of object-oriented systems using UML state machine diagram and sequence diagram. International Journal of Computing Science and Mathematics, 2020, 12, 132.	0.3	1
69	Familial Analysis of Malicious Android Apps Controlling IOT Devices. Lecture Notes in Networks and Systems, 2022, , 205-214.	0.7	1
70	Software validation based on prioritization using concurrent activity diagram. International Journal of Systems Assurance Engineering and Management, 2022, 13, 1801-1816.	2.4	1
71	MM-path Approach for Integration Testing of Aspect-Oriented Programs. , 2015, , .		0
72	COLT: Extending CONCOLIC testing to measure LCSAJ Coverage. , 2016, , .		0

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73	Green-J <sup>3</sup> Model: a novel approach to measure energy consumption of modified condition/decision coverage using concolic testing. CSI Transactions on ICT, 2017, 5, 217-233.	1.0	0
74	HiRSA: computing hit ratio for SOA-based applications through Tcases. International Journal of Computational Systems Engineering, 2018, 4, 23.	0.2	0
75	A framework to measure coupling using static change impact analysis. International Journal of Business Information Systems, 2016, 23, 353.	0.2	0
76	Green DRCT. International Journal of Knowledge Discovery in Bioinformatics, 2017, 7, 14-29.	0.8	0
77	A framework for generating prioritised test scenarios using firefly optimisation technique. International Journal of Computing Science and Mathematics, 2017, 8, 228.	0.3	0
78	Hierarchical regression test case selection using slicing. International Journal of Computational Science and Engineering, 2017, 14, 179.	0.5	0
79	HiRSA: computing hit ratio for SOA-based applications through Tcases. International Journal of Computational Systems Engineering, 2018, 4, 23.	0.2	0
80	Reduced energy consumption for MC/DC testing. International Journal of Business Information Systems, 2018, 28, 447.	0.2	0
81	A Hybrid Positive-Unlabeled Learning Method for Malware Variants Detection. Advances in Intelligent Systems and Computing, 2021, , 8-17.	0.6	0