

Chang-Ai Sun

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

417
citations

932766

10
h-index

794141

19
g-index

35
all docs

35
docs citations

35
times ranked

323
citing authors

#	ARTICLE	IF	CITATIONS
1	VxBPEL: Supporting variability for Web services in BPEL. Information and Software Technology, 2009, 51, 258-269.	3.0	102
2	Modeling and managing the variability of Web service-based systems. Journal of Systems and Software, 2010, 83, 502-516.	3.3	49
3	A Metamorphic Relation-Based Approach to Testing Web Services Without Oracles. International Journal of Web Services Research, 2012, 9, 51-73.	0.5	36
4	Metamorphic Testing for Web Services: Framework and a Case Study. , 2011, , .		28
5	A path-aware approach to mutant reduction in mutation testing. Information and Software Technology, 2017, 81, 65-81.	3.0	28
6	Transaction Management in Service-Oriented Systems: Requirements and a Proposal. IEEE Transactions on Services Computing, 2011, 4, 167-180.	3.2	25
7	METRIC+: A Metamorphic Relation Identification Technique Based on Input plus Output Domains. IEEE Transactions on Software Engineering, 2019, , 1-1.	4.3	17
8	A Comprehensive Security Framework for Publish/Subscribe-Based IoT Services Communication. IEEE Access, 2019, 7, 25989-26001.	2.6	13
9	A property-based testing framework for encryption programs. Frontiers of Computer Science, 2014, 8, 478-489.	1.6	11
10	Fault localisation for WS-BPEL programs based on predicate switching and program slicing. Journal of Systems and Software, 2018, 135, 191-204.	3.3	11
11	BPELDebugger: An effective BPEL-specific fault localization framework. Information and Software Technology, 2013, 55, 2140-2153.	3.0	10
12	Adaptive Partition Testing. IEEE Transactions on Computers, 2019, 68, 157-169.	2.4	10
13	A comparative study of open-source learning management systems. , 2011, , .		9
14	Scenario-Oriented Testing for Web Service Compositions Using BPEL. , 2012, , .		7
15	A transformation-based approach to testing concurrent programs using UML activity diagrams. Software - Practice and Experience, 2016, 46, 551-576.	2.5	6
16	Dynamic Random Testing of Web Services: A Methodology and Evaluation. IEEE Transactions on Services Computing, 2022, 15, 736-751.	3.2	6
17	Constraint-Based Model-Driven Testing of Web Services for Behavior Conformance. Lecture Notes in Computer Science, 2018, , 543-559.	1.0	6
18	ValySeC: A Variability Analysis Tool for Service Compositions Using VxBPEL. , 2010, , .		5

#	ARTICLE	IF	CITATIONS
19	An Empirical Study on Mutation Testing of WS-BPEL Programs. Computer Journal, 2017, 60, 143-158.	1.5	5
20	Path-directed source test case generation and prioritization in metamorphic testing. Journal of Systems and Software, 2022, 183, 111091.	3.3	5
21	A Cross-Layer Security Solution for Publish/Subscribe-Based IoT Services Communication Infrastructure. , 2017, , .		4
22	Toward Supporting Unplanned Dynamic Changes of Service-Based Business Processes. IEEE Access, 2019, 7, 48982-48997.	2.6	4
23	A Lightweight Program Dependence Based Approach to Concurrent Mutation Analysis. , 2018, , .		3
24	Towards Dynamic Random Testing for Web Services. , 2012, , .		2
25	Metamorphic testing as a test case selection strategy. Science China Information Sciences, 2016, 59, 1.	2.7	2
26	d(mu)Reg: A Path-Aware Mutation Analysis Guided Approach to Regression Testing. , 2017, , .		2
27	Adaptive BPEL Service Compositions via Variability Management. International Journal of Web Services Research, 2019, 16, 37-69.	0.5	2
28	ReMuSSE: A Redundant Mutant Identification Technique Based on Selective Symbolic Execution. IEEE Transactions on Reliability, 2022, 71, 415-428.	3.5	2
29	Lightweight and Context-aware Modeling of Microservice-based Internet of Things. , 2021, , .		2
30	Towards Transaction-Based Reliable Service Compositions. , 2009, , .		1
31	A Multi-View Architectural Model and Its Description and Construction. , 2010, , .		1
32	Toward Effectively Locating Integration-Level Faults in BPEL Programs. , 2012, , .		1
33	Enforcing compliance of hierarchical business process with visual security constraints. International Journal of Systems Assurance Engineering and Management, 2018, 9, 703-715.	1.5	1
34	Software reliability assessment: a software cybernetics perspective. Scientia Sinica Informationis, 2019, 49, 1528-1531.	0.2	1
35	Feedback-Directed Metamorphic Testing. ACM Transactions on Software Engineering and Methodology, 2023, 32, 1-34.	4.8	0