

Sebastian Uchitel

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,832
citations

567281

15
h-index

477307

29
g-index

104
all docs

104
docs citations

104
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	Incremental elaboration of scenario-based specifications and behavior models using implied scenarios. ACM Transactions on Software Engineering and Methodology, 2004, 13, 37-85.	6.0	136
2	Synthesis of Partial Behavior Models from Properties and Scenarios. IEEE Transactions on Software Engineering, 2009, 35, 384-406.	5.6	96
3	A foundation for behavioural conformance in software product line architectures. , 2006, , .		89
4	Detecting implied scenarios in message sequence chart specifications. , 2001, , .		62
5	Deriving event-based transition systems from goal-oriented requirements models. Automated Software Engineering, 2008, 15, 175-206.	2.9	62
6	Using Scenarios to Predict the Reliability of Concurrent Component-Based Software Systems. Lecture Notes in Computer Science, 2005, , 111-126.	1.3	62
7	Merging partial behavioural models. , 2004, , .		54
8	Behaviour Model Synthesis from Properties and Scenarios. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	53
9	Hope for the best, prepare for the worst: multi-tier control for adaptive systems. , 2014, , .		51
10	Synthesis of live behaviour models. , 2010, , .		50
11	MTSA: The Modal Transition System Analyser. , 2008, , .		49
12	Synthesizing nonanomalous event-based controllers for liveness goals. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-36.	6.0	48
13	MORPH: a reference architecture for configuration and behaviour self-adaptation. , 2015, , .		45
14	Modes for Software Architectures. Lecture Notes in Computer Science, 2006, , 113-126.	1.3	40
15	Existential live sequence charts revisited. , 2008, , .		37
16	Synthesis of live behaviour models for fallible domains. , 2011, , .		36
17	Monitoring and control in scenario-based requirements analysis. , 2005, , .		35
18	Model checking service compositions under resource constraints. , 2007, , .		34

#	ARTICLE	IF	CITATIONS
19	Negative scenarios for implied scenario elicitation. , 2002, , .		29
20	Automated Abstractions for Contract Validation. IEEE Transactions on Software Engineering, 2012, 38, 141-162.	5.6	29
21	Merging partial behavioural models. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2004, 29, 43-52.	0.7	27
22	Reliability Prediction in Model-Driven Development. Lecture Notes in Computer Science, 2005, , 339-354.	1.3	27
23	LTSA-MSC: Tool Support for Behaviour Model Elaboration Using Implied Scenarios. Lecture Notes in Computer Science, 2003, , 597-601.	1.3	26
24	WS-Engineer: A Model-Based Approach to Engineering Web Service Compositions and Choreography. , 2007, , 87-119.		26
25	On correct and complete strong merging of partial behaviour models. , 2008, , .		22
26	Weak Alphabet Merging of Partial Behavior Models. ACM Transactions on Software Engineering and Methodology, 2012, 21, 1-47.	6.0	22
27	Elaborating Requirements Using Model Checking and Inductive Learning. IEEE Transactions on Software Engineering, 2013, 39, 361-383.	5.6	22
28	Behaviour model elaboration using partial labelled transition systems. , 2003, , .		21
29	Generating obstacle conditions for requirements completeness. , 2012, , .		21
30	Detecting Implied Scenarios from Execution Traces. , 2007, , .		20
31	Synthesizing Modal Transition Systems from Triggered Scenarios. IEEE Transactions on Software Engineering, 2013, 39, 975-1001.	5.6	18
32	Proving Deadlock Freedom in Component-Based Programming. Lecture Notes in Computer Science, 2001, , 60-75.	1.3	18
33	Predictable Dynamic Plugin Systems. Lecture Notes in Computer Science, 2004, , 129-143.	1.3	17
34	An Integrated Workbench for Model-Based Engineering of Service Compositions. IEEE Transactions on Services Computing, 2010, 3, 131-144.	4.6	17
35	Fluent temporal logic for discrete-time event-based models. , 2005, , .		16
36	Goal and scenario validation: a fluent combination. Requirements Engineering, 2006, 11, 123-137.	3.1	16

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37	Program abstractions for behaviour validation. , 2011, , .		14
38	Automated goal operationalisation based on interpolation and SAT solving. , 2014, , .		14
39	Automated support for diagnosis and repair. Communications of the ACM, 2015, 58, 65-72.	4.5	14
40	A Sound Observational Semantics for Modal Transition Systems. Lecture Notes in Computer Science, 2009, , 215-230.	1.3	14
41	Validation of contracts using enabledness preserving finite state abstractions. , 2009, , .		13
42	Enabledness-based program abstractions for behavior validation. ACM Transactions on Software Engineering and Methodology, 2013, 22, 1-46.	6.0	13
43	Using contexts to extract models from code. Software and Systems Modeling, 2017, 16, 523-557.	2.7	13
44	Dynamic Update of Discrete Event Controllers. IEEE Transactions on Software Engineering, 2020, 46, 1220-1240.	5.6	13
45	MTSA. , 2007, , .		12
46	Supporting incremental behaviour model elaboration. Computer Science - Research and Development, 2013, 28, 279-293.	2.7	12
47	Properties of Behavioural Model Merging. Lecture Notes in Computer Science, 2006, , 98-114.	1.3	12
48	Exploring inconsistencies between modal transition systems. Software and Systems Modeling, 2011, 10, 117-142.	2.7	11
49	The Modal Transition System Control Problem. Lecture Notes in Computer Science, 2012, , 155-170.	1.3	11
50	Interaction Models and Automated Control under Partial Observable Environments. IEEE Transactions on Software Engineering, 2017, 43, 19-33.	5.6	10
51	Learning from Vacuously Satisfiable Scenario-Based Specifications. Lecture Notes in Computer Science, 2012, , 377-393.	1.3	10
52	Merging Partial Behaviour Models with Different Vocabularies. Lecture Notes in Computer Science, 2013, , 91-105.	1.3	10
53	Assumption Monitoring Using Runtime Verification for UAV Temporal Task Plan Executions. , 2021, , .		10
54	Sensitivity analysis for a scenario-based reliability prediction model. , 2005, , .		9

#	ARTICLE	IF	CITATIONS
55	Probabilistic environments in the quantitative analysis of (non-probabilistic) behaviour models. , 2009, , .		9
56	Directed Controller Synthesis of discrete event systems: Taming composition with heuristics. , 2016, , .		9
57	My model checker died!. , 2010, , .		8
58	Risk-driven revision of requirements models. , 2016, , .		8
59	Extracting Requirements from Scenarios with ILP. Lecture Notes in Computer Science, 2006, , 64-78.	1.3	8
60	Towards compositional synthesis of evolving systems. , 2008, , .		7
61	Contractor.NET. , 2011, , .		7
62	Towards Faithful Model Extraction Based on Contexts. , 2008, , 101-115.		7
63	Distribution of Modal Transition Systems. Lecture Notes in Computer Science, 2012, , 403-417.	1.3	7
64	Implied Scenario Detection in the Presence of Behaviour Constraints ¹ ¹ Partially supported by EPSRC Grant GR/M24493 (BEADS Project).. Electronic Notes in Theoretical Computer Science, 2002, 65, 65-84.	0.9	6
65	CSSL. , 2011, , .		6
66	Towards a Periodic Table of Connectors. Lecture Notes in Computer Science, 1999, , 418-418.	1.3	6
67	An Extended Description of MORPH: A Reference Architecture for Configuration and Behaviour Self-Adaptation. Lecture Notes in Computer Science, 2017, , 377-408.	1.3	5
68	Partial Behaviour Modelling: Foundations for Incremental and Iterative Model-Based Software Engineering. Lecture Notes in Computer Science, 2009, , 17-22.	1.3	5
69	Leveraging Eclipse for integrated model-based engineering of web service compositions. , 2005, , .		4
70	Deriving Non-zero Behavior Models from Goal Models Using ILP. , 2008, , 1-15.		4
71	Behaviour Abstraction Coverage as Black-Box Adequacy Criteria. , 2013, , .		4
72	Automated reliability estimation over partial systematic explorations. , 2013, , .		4

#	ARTICLE	IF	CITATIONS
73	Specification and Analysis of Dynamically-Reconfigurable Service Architectures. Lecture Notes in Computer Science, 2011, , 428-446.	1.3	4
74	Runtime Support for Dynamic and Adaptive Service Composition. Lecture Notes in Computer Science, 2011, , 585-603.	1.3	4
75	Inferring operational requirements from scenarios and goal models using inductive learning. , 2006, , .		3
76	Controllability in Partial and Uncertain Environments. , 2014, , .		3
77	Robust degradation and enhancement of robot mission behaviour in unpredictable environments. , 2015, , .		3
78	Runtime controller synthesis for self-adaptation. , 2016, , .		3
79	Compositional Supervisory Control via Reactive Synthesis and Automated Planning. IEEE Transactions on Automatic Control, 2020, 65, 3502-3516.	5.7	3
80	Dynamic Reconfiguration of Business Processes. Lecture Notes in Computer Science, 2019, , 35-51.	1.3	3
81	Towards Self-management in Service-Oriented Computing with Modes. Lecture Notes in Computer Science, 2009, , 338-350.	1.3	3
82	Adaptation ² : Adapting Specification Learners in Assured Adaptive Systems. , 2021, , .		3
83	Sensitivity analysis for a scenario-based reliability prediction model. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2005, 30, 1-5.	0.7	2
84	Towards accurate probabilistic models using state refinement. , 2009, , .		2
85	Behaviour abstraction adequacy criteria for API call protocol testing. Software Testing Verification and Reliability, 2016, 26, 211-244.	2.0	2
86	Integrating Model Checking and Inductive Logic Programming. Lecture Notes in Computer Science, 2012, , 45-60.	1.3	2
87	Logic-based learning in software engineering. , 2016, , .		1
88	Enabledness-based Testing of Object Protocols. ACM Transactions on Software Engineering and Methodology, 2021, 30, 1-36.	6.0	1
89	Revisiting Compatibility of Input-Output Modal Transition Systems. Lecture Notes in Computer Science, 2014, , 367-381.	1.3	1
90	Control and Discovery of Environment Behaviour. IEEE Transactions on Software Engineering, 2022, 48, 1965-1978.	5.6	1

#	ARTICLE	IF	CITATIONS
91	A summary of the second ICSE 2003 workshop on. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2003, 28, 9-9.	0.7	0
92	Introduction to doctoral symposium. , 2005, , .		0
93	2 ^{1/2} -player generalized reactivity (1) games. , 2016, , .		0
94	Probabilistic Interface Automata. IEEE Transactions on Software Engineering, 2016, 42, 843-865.	5.6	0
95	Synthesis of Run-To-Completion Controllers for Discrete Event Systems. , 2021, , .		0
96	Engage: Engineering Service Modes with WS-Engineer and Dino. Lecture Notes in Computer Science, 2009, , 641-642.	1.3	0
97	Abstractions for Validation in Action. Lecture Notes in Computer Science, 2012, , 192-218.	1.3	0
98	Assured Mission Adaptation of UAVs. ACM Transactions on Autonomous and Adaptive Systems, 2021, 16, 1-27.	0.8	0