

Marsha Chechik

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

2,481
citations

331538

21
h-index

377752

34
g-index

115
all docs

115
docs citations

115
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	Matching and Merging of Statecharts Specifications. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	174
2	Multi-valued symbolic model-checking. ACM Transactions on Software Engineering and Methodology, 2003, 12, 371-408.	4.8	140
3	Managing cloned variants. , 2013, , .		111
4	What is a feature?. , 2015, , .		102
5	Synthesis of Partial Behavior Models from Properties and Scenarios. IEEE Transactions on Software Engineering, 2009, 35, 384-406.	4.3	96
6	A Survey of Feature Location Techniques. , 2013, , 29-58.		87
7	A manifesto for model merging. , 2006, , .		79
8	Partial models: Towards modeling and reasoning with uncertainty. , 2012, , .		77
9	Runtime Monitoring of Web Service Conversations. IEEE Transactions on Services Computing, 2009, 2, 223-244.	3.2	60
10	Merging partial behavioural models. , 2004, , .		54
11	Consistency Checking of Conceptual Models via Model Merging. , 2007, , .		53
12	N-way model merging. , 2013, , .		53
13	MTSA: The Modal Transition System Analyser. , 2008, , .		49
14	A framework for managing cloned product variants. , 2013, , .		45
15	Managing requirements uncertainty with partial models. Requirements Engineering, 2013, 18, 107-128.	2.1	44
16	Managing forked product variants. , 2012, , .		41
17	Language Independent Refinement Using Partial Modeling. Lecture Notes in Computer Science, 2012, , 224-239.	1.0	39
18	Why Waste a Perfectly Good Abstraction?. Lecture Notes in Computer Science, 2006, , 212-226.	1.0	34

#	ARTICLE	IF	CITATIONS
19	Multi-valued Model Checking via Classical Model Checking. Lecture Notes in Computer Science, 2003, , 266-280.	1.0	33
20	Data structures for symbolic multi-valued model-checking. Formal Methods in System Design, 2006, 29, 295-344.	0.9	32
21	Model-Checking Over Multi-Valued Logics. Lecture Notes in Computer Science, 2001, , 72-98.	1.0	32
22	Matching and Merging of Variant Feature Specifications. IEEE Transactions on Software Engineering, 2012, 38, 1355-1375.	4.3	30
23	Guided recovery for web service applications. , 2010, , .		29
24	A relationship-based approach to model integration. Innovations in Systems and Software Engineering, 2012, 8, 3-18.	1.6	29
25	Merging partial behavioural models. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2004, 29, 43-52.	0.5	27
26	Proof-Like Counter-Examples. Lecture Notes in Computer Science, 2003, , 160-175.	1.0	27
27	Semantic Slicing of Software Version Histories. IEEE Transactions on Software Engineering, 2018, 44, 182-201.	4.3	26
28	How Vacuous Is Vacuous?. Lecture Notes in Computer Science, 2004, , 451-466.	1.0	26
29	Cloned product variants: from ad-hoc to managed software product lines. International Journal on Software Tools for Technology Transfer, 2015, 17, 627-646.	1.7	25
30	Transformation of Models Containing Uncertainty. Lecture Notes in Computer Science, 2013, , 673-689.	1.0	25
31	Global consistency checking of distributed models with TReMer+. , 2008, , .		23
32	Efficient Multiple-Valued Model-Checking Using Lattice Representations. Lecture Notes in Computer Science, 2001, , 441-455.	1.0	23
33	A framework for counterexample generation and exploration. International Journal on Software Tools for Technology Transfer, 2007, 9, 429-445.	1.7	22
34	Weak Alphabet Merging of Partial Behavior Models. ACM Transactions on Software Engineering and Methodology, 2012, 21, 1-47.	4.8	22
35	Quality of Merge-Refactorings for Product Lines. Lecture Notes in Computer Science, 2013, , 83-98.	1.0	21
36	Managing design-time uncertainty. Software and Systems Modeling, 2019, 18, 1249-1284.	2.2	21

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37	Toward Requirements Specification for Machine-Learned Components. , 2019, , .		20
38	Semantic Slicing of Software Version Histories (T). , 2015, , .		19
39	ÎŞChek: A Multi-valued Model-Checker. Lecture Notes in Computer Science, 2002, , 505-509.	1.0	19
40	An Eclipse-based tool framework for software model management. , 2007, , .		18
41	Precise semantic history slicing through dynamic delta refinement. , 2016, , .		18
42	Relationship-based change propagation: A case study. , 2009, , .		17
43	A model management approach for assurance case reuse due to system evolution. , 2016, , .		17
44	Two Decades of Assurance Case Tools: A Survey. Lecture Notes in Computer Science, 2018, , 49-59.	1.0	17
45	Looking into the Crystal Ball: Requirements Evolution over Time. , 2016, , .		16
46	A Dataset for Dynamic Discovery of Semantic Changes in Version Controlled Software Histories. , 2017, , .		15
47	Towards Requirements Specification for Machine-learned Perception Based on Human Performance. , 2020, , .		15
48	Implementing a Multi-valued Symbolic Model Checker. Lecture Notes in Computer Science, 2001, , 404-419.	1.0	15
49	A Relationship-Driven Framework for Model Merging. , 2007, , .		14
50	On the consistency, expressiveness, and precision of partial modeling formalisms. Information and Computation, 2011, 209, 20-47.	0.5	13
51	Managing requirements uncertainty with partial models. , 2012, , .		13
52	How Thorough Is Thorough Enough?. Lecture Notes in Computer Science, 2005, , 65-80.	1.0	13
53	MMINT-A: A Tool for Automated Change Impact Assessment on Assurance Cases. Lecture Notes in Computer Science, 2018, , 60-70.	1.0	13
54	Exploiting resolution proofs to speed up LTL vacuity detection for BMC. International Journal on Software Tools for Technology Transfer, 2010, 12, 319-335.	1.7	12

#	ARTICLE	IF	CITATIONS
55	Towards a Methodology for Verifying Partial Model Refinements. , 2012, , .		12
56	Supporting incremental behaviour model elaboration. Computer Science - Research and Development, 2013, 28, 279-293.	2.7	12
57	Migrating Automotive Product Lines: A Case Study. Lecture Notes in Computer Science, 2015, , 82-97.	1.0	12
58	Properties of Behavioural Model Merging. Lecture Notes in Computer Science, 2006, , 98-114.	1.0	12
59	Exploring inconsistencies between modal transition systems. Software and Systems Modeling, 2011, 10, 117-142.	2.2	11
60	Safety Case Impact Assessment in Automotive Software Systems: An Improved Model-Based Approach. Lecture Notes in Computer Science, 2017, , 69-85.	1.0	11
61	Mixed Transition Systems Revisited. Lecture Notes in Computer Science, 2008, , 349-365.	1.0	11
62	On Closure Under Stuttering. Formal Aspects of Computing, 2003, 14, 342-368.	1.4	10
63	The semantics of partial model transformations. , 2012, , .		10
64	Supporting early decision-making in the presence of uncertainty. , 2014, , .		10
65	Enriching megamodel management with collection-based operators. , 2015, , .		10
66	Supporting Verification-Driven Incremental Distributed Design of Components. Lecture Notes in Computer Science, 2018, , 169-188.	1.0	10
67	Software Assurance in an Uncertain World. Lecture Notes in Computer Science, 2019, , 3-21.	1.0	10
68	Monitoring and Recovery of Web Service Applications. Lecture Notes in Computer Science, 2010, , 250-288.	1.0	10
69	Partial models. , 2011, , .		9
70	Monitoring and recovery for web service applications. Computing (Vienna/New York), 2013, 95, 223-267.	3.2	9
71	Managing Design-Time Uncertainty. , 2017, , .		9
72	FHistorian. , 2017, , .		9

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73	Property Satisfiability Analysis for Product Lines of Modelling Languages. IEEE Transactions on Software Engineering, 2022, 48, 397-416.	4.3	9
74	MU-MMINT: An IDE for Model Uncertainty. , 2015, , .		8
75	A verification-driven framework for iterative design of controllers. Formal Aspects of Computing, 2019, 31, 459-502.	1.4	8
76	Comparing the effectiveness of reasoning formalisms for partial models. , 2012, , .		7
77	Formal reasoning for analyzing goal models that evolve over time. Requirements Engineering, 2021, 26, 423-457.	2.1	7
78	Generating Counterexamples for Multi-valued Model-Checking. Lecture Notes in Computer Science, 2003, , 503-521.	1.0	7
79	Let's agree to disagree. , 2005, , .		6
80	Finding Environment Guarantees. , 2007, , 352-367.		6
81	Lightweight Reasoning about Program Correctness. Information Systems Frontiers, 2002, 4, 363-377.	4.1	5
82	BloomingLeaf: A Formal Tool for Requirements Evolution Over Time. , 2018, , .		5
83	FPH: Efficient Non-commutativity Analysis of Feature-Based Systems. Lecture Notes in Computer Science, 2018, , 319-336.	1.0	5
84	Precise semantic history slicing through dynamic delta refinement. Automated Software Engineering, 2019, 26, 757-793.	2.2	5
85	GenSlice: Generalized Semantic History Slicing. , 2020, , .		5
86	Just Enough Formality in Assurance Argument Structures. Lecture Notes in Computer Science, 2020, , 34-49.	1.0	5
87	A Lean Approach to Building Valid Model-Based Safety Arguments. , 2021, , .		5
88	Model exploration with temporal logic query checking. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2002, 27, 139-148.	0.5	4
89	Behavioural model fusion. , 2008, , .		4
90	RuMoR. , 2010, , .		4

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91	Modeling and Reasoning with Changing Intentions: An Experiment. , 2017, , .		4
92	Heterogeneous megamodel management using collection operators. Software and Systems Modeling, 2020, 19, 231-260.	2.2	4
93	Reconstructing the past: the case of the Spadina Expressway. Requirements Engineering, 2020, 25, 253-272.	2.1	4
94	MMINT-A 2.0. , 2020, , .		4
95	Guest Editorial: Special Issue on Model Checking in Requirements Engineering. Requirements Engineering, 2002, 7, 221-224.	2.1	3
96	PtYasm: Software Model Checking with Proof Templates. , 2008, , .		3
97	Using developer conversations to resolve uncertainty in software development: a position paper. , 2014, , .		3
98	Uncertain Requirements, Assurance and Machine Learning. , 2019, , .		3
99	Formal modeling in a commercial setting: A case study. Journal of Systems and Software, 2002, 60, 59-82.	3.3	2
100	Thorough Checking Revisited. , 2006, , .		2
101	Augmenting Counterexample-Guided Abstraction Refinement with Proof Templates. , 2008, , .		2
102	A relationship-based approach to model management. , 2009, , .		2
103	CSlicerCloud. , 2018, , .		2
104	Querying Automotive System Models and Safety Artifacts with MMINT and Viatra. , 2019, , .		2
105	Uncertainty, Modeling and Safety Assurance: Towards a Unified Framework. Lecture Notes in Computer Science, 2020, , 19-29.	1.0	2
106	Optimizing Computation of Recovery Plans for BPEL Applications. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 35, 3-14.	0.8	2
107	Validating Safety Arguments withÂLean. Lecture Notes in Computer Science, 2021, , 23-43.	1.0	2
108	Annotative Software Product Line Analysis Using Variability-Aware Datalog. IEEE Transactions on Software Engineering, 2023, 49, 1323-1341.	4.3	2

#	ARTICLE	IF	CITATIONS
109	Guest editorial: selected areas in automated software engineering. Automated Software Engineering, 2018, 25, 45-46.	2.2	1
110	Automated Support for Building Behavioral Models of Event-Driven Systems. Lecture Notes in Computer Science, 2006, , 122-138.	1.0	1
111	In memory of Robert B. France, Co-Founder and Editor-in-Chief of SoSyM from 1999 to 2015. Software and Systems Modeling, 2015, 14, 525-532.	2.2	0
112	7th International Workshop on Modeling in Software Engineering (MiSE 2015). , 2015, , .		0
113	Selected Extended Papers of VSTTE 2016. Journal of Automated Reasoning, 2018, 60, 255-256.	1.1	0
114	PWWM: A Personal Web Workflow Methodology. Lecture Notes in Computer Science, 2013, , 11-48.	1.0	0