

# Mehrdad Sabetzadeh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4651339/publications.pdf>

Version: 2024-02-01

82  
papers

2,048  
citations

471509

17  
h-index

377865

34  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1060  
citing authors

#	ARTICLE	IF	CITATIONS
1	Matching and Merging of Statecharts Specifications. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	174
2	Automated Checking of Conformance to Requirements Templates Using Natural Language Processing. IEEE Transactions on Software Engineering, 2015, 41, 944-968.	5.6	112
3	The Case for Context-Driven Software Engineering Research: Generalizability Is Overrated. IEEE Software, 2017, 34, 72-75.	1.8	86
4	An extended systematic literature review on provision of evidence for safety certification. Information and Software Technology, 2014, 56, 689-717.	4.4	85
5	View merging in the presence of incompleteness and inconsistency. Requirements Engineering, 2006, 11, 174-193.	3.1	81
6	A manifesto for model merging. , 2006, , .		79
7	Extracting domain models from natural-language requirements. , 2016, , .		68
8	Automated Extraction and Clustering of Requirements Glossary Terms. IEEE Transactions on Software Engineering, 2017, 43, 918-945.	5.6	66
9	Consistency Checking of Conceptual Models via Model Merging. , 2007, , .		53
10	A SysML-based approach to traceability management and design slicing in support of safety certification: Framework, tool support, and case studies. Information and Software Technology, 2012, 54, 569-590.	4.4	53
11	Evidence management for compliance of critical systems with safety standards: A survey on the state of practice. Information and Software Technology, 2015, 60, 1-15.	4.4	52
12	Supporting the verification of compliance to safety standards via model-driven engineering: Approach, tool-support and empirical validation. Information and Software Technology, 2013, 55, 836-864.	4.4	50
13	Testing the untestable. , 2016, , .		46
14	Change impact analysis for Natural Language requirements: An NLP approach. , 2015, , .		41
15	Characterizing the Chain of Evidence for Software Safety Cases: A Conceptual Model Based on the IEC 61508 Standard. , 2010, , .		38
16	Traceability and SysML design slices to support safety inspections. ACM Transactions on Software Engineering and Methodology, 2014, 23, 1-43.	6.0	38
17	Test case prioritization for acceptance testing of cyber physical systems: a multi-objective search-based approach. , 2018, , .		35
18	Using Models to Enable Compliance Checking Against the GDPR: An Experience Report. , 2019, , .		35

#	ARTICLE	IF	CITATIONS
19	Automated Extraction of Semantic Legal Metadata using Natural Language Processing. , 2018, , .		34
20	Matching and Merging of Variant Feature Specifications. IEEE Transactions on Software Engineering, 2012, 38, 1355-1375.	5.6	30
21	A relationship-based approach to model integration. Innovations in Systems and Software Engineering, 2012, 8, 3-18.	2.1	29
22	Software Engineering Research and Industry: A Symbiotic Relationship to Foster Impact. IEEE Software, 2018, 35, 44-49.	1.8	29
23	A Machine Learning-Based Approach for Demarcating Requirements in Textual Specifications. , 2019, , .		27
24	Synthetic data generation for statistical testing. , 2017, , .		25
25	Global consistency checking of distributed models with TReMer+. , 2008, , .		23
26	A Model-Driven Engineering Approach to Support the Verification of Compliance to Safety Standards. , 2011, , .		23
27	Planning for Safety Standards Compliance: A Model-Based Tool-Supported Approach. IEEE Software, 2012, 29, 64-70.	1.8	22
28	An automated framework for detection and resolution of cross references in legal texts. Requirements Engineering, 2017, 22, 215-237.	3.1	22
29	Combining Goal Models, Expert Elicitation, and Probabilistic Simulation for Qualification of New Technology. , 2011, , .		21
30	Classification, Structuring, and Assessment of Evidence for Safety – A Systematic Literature Review. , 2013, , .		21
31	Automatic Checking of Conformance to Requirement Boilerplates via Text Chunking: An Industrial Case Study. , 2013, , .		20
32	An Active Learning Approach for Improving the Accuracy of Automated Domain Model Extraction. ACM Transactions on Software Engineering and Methodology, 2019, 28, 1-34.	6.0	20
33	Using Domain-Specific Corpora for Improved Handling of Ambiguity in Requirements. , 2021, , .		20
34	Automated demarcation of requirements in textual specifications: a machine learning-based approach. Empirical Software Engineering, 2020, 25, 5454-5497.	3.9	19
35	An Eclipse-based tool framework for software model management. , 2007, , .		18
36	Using SysML for Modeling of Safety-Critical Software-Hardware Interfaces: Guidelines and Industry Experience. , 2011, , .		18

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37	SafeSlice. , 2011, , .		18
38	Relationship-based change propagation: A case study. , 2009, , .		17
39	Requirement boilerplates: Transition from manually-enforced to automatically-verifiable natural language patterns. , 2014, , .		17
40	An empirical study on the potential usefulness of domain models for completeness checking of requirements. Empirical Software Engineering, 2019, 24, 2509-2539.	3.9	17
41	Practical Constraint Solving for Generating System Test Data. ACM Transactions on Software Engineering and Methodology, 2020, 29, 1-48.	6.0	17
42	Traceability in viewpoint merging. , 2005, , .		16
43	Automated change impact analysis between SysML models of requirements and design. , 2016, , .		16
44	Modeling and Analysis of CPU Usage in Safety-Critical Embedded Systems to Support Stress Testing. Lecture Notes in Computer Science, 2012, , 759-775.	1.3	15
45	A Relationship-Driven Framework for Model Merging. , 2007, , .		14
46	Uncertainty-aware specification and analysis for hardware-in-the-loop testing of cyber-physical systems. Journal of Systems and Software, 2021, 171, 110813.	4.5	14
47	Research-Based Innovation: A Tale of Three Projects in Model-Driven Engineering. Lecture Notes in Computer Science, 2012, , 793-809.	1.3	14
48	Improving requirements glossary construction via clustering. , 2014, , .		13
49	Automated detection and resolution of legal cross references: Approach and a study of Luxembourg's legislation. , 2014, , .		13
50	A Query System for Extracting Requirements-Related Information from Legal Texts. , 2019, , .		13
51	On systematically building a controlled natural language for functional requirements. Empirical Software Engineering, 2021, 26, 79.	3.9	13
52	RUBRIC: a flexible tool for automated checking of conformance to requirement boilerplates. , 2013, , .		12
53	Model-based simulation of legal policies: framework, tool support, and validation. Software and Systems Modeling, 2018, 17, 851-883.	2.7	12
54	NARCIA: an automated tool for change impact analysis in natural language requirements. , 2015, , .		11

#	ARTICLE	IF	CITATIONS
55	Model management for regulatory compliance. , 2016, , .		11
56	Towards a Model-Based Evolutionary Chain of Evidence for Compliance with Safety Standards. Lecture Notes in Computer Science, 2012, , 64-78.	1.3	11
57	Using Model-Driven Engineering for Managing Safety Evidence: Challenges, Vision and Experience. , 2011, , .		10
58	Using UML Profiles for Sector-Specific Tailoring of Safety Evidence Information. Lecture Notes in Computer Science, 2011, , 362-378.	1.3	10
59	Automated handling of anaphoric ambiguity in requirements. , 2022, , .		10
60	Challenges for an Open and Evolutionary Approach to Safety Assurance and Certification of Safety-Critical Systems. , 2011, , .		9
61	AI-Enabled Automation for Completeness Checking of Privacy Policies. IEEE Transactions on Software Engineering, 2022, 48, 4647-4674.	5.6	9
62	Modeling data protection and privacy: application and experience with GDPR. Software and Systems Modeling, 2021, 20, 2071-2087.	2.7	9
63	Model-Based Simulation of Legal Requirements: Experience from Tax Policy Simulation. , 2016, , .		8
64	Towards compositional synthesis of evolving systems. , 2008, , .		7
65	A goal-based approach for qualification of new technologies: Foundations, tool support, and industrial validation. Reliability Engineering and System Safety, 2013, 119, 52-66.	8.9	7
66	A model-based framework for probabilistic simulation of legal policies. , 2015, , .		7
67	HITECS. , 2018, , .		6
68	An automated framework for the extraction of semantic legal metadata from legal texts. Empirical Software Engineering, 2021, 26, 1.	3.9	6
69	Automated Classification of Legal Cross References Based on Semantic Intent. Lecture Notes in Computer Science, 2016, , 119-134.	1.3	6
70	Legal Markup Generation in the Large: An Experience Report. , 2017, , .		5
71	Automated Recommendation of Templates for Legal Requirements. , 2020, , .		5
72	Decision Support for Security-Control Identification Using Machine Learning. Lecture Notes in Computer Science, 2019, , 3-20.	1.3	5

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73	Viewpoints. , 2010, , 1318-1329.		5
74	Using machine learning to assist with the selection of security controls during security assessment. Empirical Software Engineering, 2020, 25, 2550-2582.	3.9	4
75	Machine Learning-based Estimation of Story Points in Agile Development: Industrial Experience and Lessons Learned. , 2021, , .		4
76	Towards customer-based requirements engineering practices. , 2012, , .		3
77	Leveraging natural-language requirements for deriving better acceptance criteria from models. , 2020, , .		3
78	A relationship-driven approach to view merging. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2006, 31, 1-2.	0.7	2
79	CRESCO: Construction of Evidence Repositories for Managing Standards Compliance. Lecture Notes in Computer Science, 2011, , 338-342.	1.3	2
80	From RELAW Research to Practice: Reflections on an Ongoing Technology Transfer Project. , 2017, , .		1
81	Management of Incomplete and Inconsistent Views. , 2006, , .		0
82	PWWM: A Personal Web Workflow Methodology. Lecture Notes in Computer Science, 2013, , 11-48.	1.3	0