Matthias Tichy

List of Publications by Year
in descending order

39	1,018	1163065 8	1125717 13
papers	citations	h-index	g-index

40	40	40	736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Software Engineering for Self-Adaptive Systems: A Research Roadmap. Lecture Notes in Computer Science, 2009, , 1-26.	1.3	624
2	Model-based engineering in the embedded systems domain: an industrial survey on the state-of-practice. Software and Systems Modeling, 2018, 17, 91-113.	2.7	90
3	Tool integration at the meta-model level: the Fujaba approach. International Journal on Software Tools for Technology Transfer, 2004, 6, 203-218.	1.9	54
4	Organisation and communication problems in automotive requirements engineering. Requirements Engineering, 2018, 23, 145-167.	3.1	33
5	Assessing the impact of meta-model evolution: a measure and its automotive application. Software and Systems Modeling, 2019, 18, 1419-1445.	2.7	20
6	System Architecture and Risk Management for Autonomous Railway Convoys. , 2008, , .		18
7	Technical debt in Automated Production Systems. , 2015, , .		18
8	How Do Software Startups Approach Experimentation? Empirical Results from a Qualitative Interview Study. Lecture Notes in Computer Science, 2017, , 297-304.	1.3	17
9	Use, potential, and showstoppers of models in automotive requirements engineering. Software and Systems Modeling, 2019, 18, 2587-2607.	2.7	15
10	Challenges concerning test case specifications in automotive software testing: assessment of frequency and criticality. Software Quality Journal, 2021, 29, 39-100.	2.2	14
11	Evolution of Long-Term Industrial Meta-Models -- An Automotive Case Study of AUTOSAR. , 2014, , .		13
12	Runtime safety analysis for safe reconfiguration. , 2012, , .		12
13	An investigation of technical debt in automatic production systems. , 2017, , .		10
14	Reporting about industrial strength software engineering courses for undergraduates. , 2002, , .		10
15	Tool Support for Developing Advanced Mechatronic Systems: Integrating the Fujaba Real-Time Tool Suite with CAMeL-View. Proceedings - International Conference on Software Engineering, 2007, , .	0.0	8
16	Quantifying Long-Term Evolution of Industrial Meta-Models - A Case Study. , 2014, , .		7
17	ARCA -- Automated Analysis of AUTOSAR Meta-model Changes. , 2015, , .		6
18	Retro-î». , 2018, , .		6

#	Article	IF	Citations
19	Modeling Techniques for Software-Intensive Systems. , 2009, , 21-57.		6
20	12 Fujaba4Eclipse Real-Time Tool Suite. Lecture Notes in Computer Science, 2010, , 309-315.	1.3	5
21	A domain-specific language for modeling and analyzing solution spaces for technology roadmapping. Journal of Systems and Software, 2022, 184, 111094.	4.5	5
22	Insights for Improving Diagram Editing Gained from an Empirical Study. , 2019, , .		4
23	Embedding programming context into source code. , 2016, , .		3
24	Challenges Concerning Test Case Specifications in Automotive Software Testing. , 2018, , .		3
25	Dedicated Model Transformation Languages vs. General-purpose Languages: A Historical Perspective on ATL vs. Java. , 2021, , .		3
26	Safety of component-based systems. , 2008, , .		2
27	INLINE: Now you're coding with portals. , 2016, , .		2
28	A Proposal of Features to Support Analysis and Debugging of Declarative Model Transformations with Graphical Syntax by Embedded Visualizations. , 2019, , .		2
29	A Modelica Coordination Pattern Library for Cyber-Physical Systems. , 2014, , .		2
30	Considering Runtime Restrictions in Self-Healing Distributed Systems. International Conference on Advanced Networking and Applications, 2007, , .	0.0	1
31	Visualizing Data-Flows in Functional Programs. , 2016, , .		1
32	Co-Evolution of Meta-Modeling Syntax and Informal Semantics in Domain-Specific Modeling Environments â€" A Case Study of AUTOSAR. , 2017, , .		1
33	A Hybrid Editor for Fast Robot Mission Prototyping. , 2019, , .		1
34	Introduction to the special section on self-optimizing mechatronic systems. International Journal on Software Tools for Technology Transfer, 2008, 10, 205-206.	1.9	0
35	Modeling human behavior for software engineering simulation games. , 2016, , .		0
36	The Business Experiments Navigator (BEN). , 2018, , .		0

#	Article	IF	Citations
37	A Tailored Domain Analysis Method for the Development of System-Specific Testing DSLs Enabling Their Smooth Introduction in Automotive Practice. , 2019, , .		0
38	A Domain-Specific Language and Interactive User Interface for Model-Driven Engineering of Technology Roadmaps. , 2020, , .		0
39	Towards Control Flow Analysis of Declarative Graph Transformations with Symbolic Execution. , 2021, , .		0