

# Matthias Tichy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6734422/publications.pdf>

Version: 2024-02-01

39  
papers

1,018  
citations

1305906

8  
h-index

1255698

13  
g-index

40  
all docs

40  
docs citations

40  
times ranked

852  
citing authors

| #  | ARTICLE                                                                                                                                                                     | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | A domain-specific language for modeling and analyzing solution spaces for technology roadmapping. <i>Journal of Systems and Software</i> , 2022, 184, 111094.               | 3.3 | 5         |
| 2  | Challenges concerning test case specifications in automotive software testing: assessment of frequency and criticality. <i>Software Quality Journal</i> , 2021, 29, 39-100. | 1.4 | 14        |
| 3  | Dedicated Model Transformation Languages vs. General-purpose Languages: A Historical Perspective on ATL vs. Java. , 2021, , .                                               |     | 3         |
| 4  | Towards Control Flow Analysis of Declarative Graph Transformations with Symbolic Execution. , 2021, , .                                                                     |     | 0         |
| 5  | A Domain-Specific Language and Interactive User Interface for Model-Driven Engineering of Technology Roadmaps. , 2020, , .                                                  |     | 0         |
| 6  | A Hybrid Editor for Fast Robot Mission Prototyping. , 2019, , .                                                                                                             |     | 1         |
| 7  | Insights for Improving Diagram Editing Gained from an Empirical Study. , 2019, , .                                                                                          |     | 4         |
| 8  | A Proposal of Features to Support Analysis and Debugging of Declarative Model Transformations with Graphical Syntax by Embedded Visualizations. , 2019, , .                 |     | 2         |
| 9  | A Tailored Domain Analysis Method for the Development of System-Specific Testing DSLs Enabling Their Smooth Introduction in Automotive Practice. , 2019, , .                |     | 0         |
| 10 | Use, potential, and showstoppers of models in automotive requirements engineering. <i>Software and Systems Modeling</i> , 2019, 18, 2587-2607.                              | 2.2 | 15        |
| 11 | Assessing the impact of meta-model evolution: a measure and its automotive application. <i>Software and Systems Modeling</i> , 2019, 18, 1419-1445.                         | 2.2 | 20        |
| 12 | Model-based engineering in the embedded systems domain: an industrial survey on the state-of-practice. <i>Software and Systems Modeling</i> , 2018, 17, 91-113.             | 2.2 | 90        |
| 13 | Organisation and communication problems in automotive requirements engineering. <i>Requirements Engineering</i> , 2018, 23, 145-167.                                        | 2.1 | 33        |
| 14 | The Business Experiments Navigator (BEN). , 2018, , .                                                                                                                       |     | 0         |
| 15 | Challenges Concerning Test Case Specifications in Automotive Software Testing. , 2018, , .                                                                                  |     | 3         |
| 16 | Retro-Î». , 2018, , .                                                                                                                                                       |     | 6         |
| 17 | An investigation of technical debt in automatic production systems. , 2017, , .                                                                                             |     | 10        |
| 18 | Co-Evolution of Meta-Modeling Syntax and Informal Semantics in Domain-Specific Modeling Environments â€” A Case Study of AUTOSAR. , 2017, , .                               |     | 1         |

| #  | ARTICLE                                                                                                                                                                                          | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | How Do Software Startups Approach Experimentation? Empirical Results from a Qualitative Interview Study. Lecture Notes in Computer Science, 2017, , 297-304.                                     | 1.0 | 17        |
| 20 | INLINE: Now you're coding with portals. , 2016, , .                                                                                                                                              |     | 2         |
| 21 | Embedding programming context into source code. , 2016, , .                                                                                                                                      |     | 3         |
| 22 | Modeling human behavior for software engineering simulation games. , 2016, , .                                                                                                                   |     | 0         |
| 23 | Visualizing Data-Flows in Functional Programs. , 2016, , .                                                                                                                                       |     | 1         |
| 24 | ARCA – Automated Analysis of AUTOSAR Meta-model Changes. , 2015, , .                                                                                                                             |     | 6         |
| 25 | Technical debt in Automated Production Systems. , 2015, , .                                                                                                                                      |     | 18        |
| 26 | Quantifying Long-Term Evolution of Industrial Meta-Models - A Case Study. , 2014, , .                                                                                                            |     | 7         |
| 27 | Evolution of Long-Term Industrial Meta-Models – An Automotive Case Study of AUTOSAR. , 2014, , .                                                                                                 |     | 13        |
| 28 | A Modelica Coordination Pattern Library for Cyber-Physical Systems. , 2014, , .                                                                                                                  |     | 2         |
| 29 | Runtime safety analysis for safe reconfiguration. , 2012, , .                                                                                                                                    |     | 12        |
| 30 | 12 Fujaba4Eclipse Real-Time Tool Suite. Lecture Notes in Computer Science, 2010, , 309-315.                                                                                                      | 1.0 | 5         |
| 31 | Software Engineering for Self-Adaptive Systems: A Research Roadmap. Lecture Notes in Computer Science, 2009, , 1-26.                                                                             | 1.0 | 624       |
| 32 | Modeling Techniques for Software-Intensive Systems. , 2009, , 21-57.                                                                                                                             |     | 6         |
| 33 | Introduction to the special section on self-optimizing mechatronic systems. International Journal on Software Tools for Technology Transfer, 2008, 10, 205-206.                                  | 1.7 | 0         |
| 34 | System Architecture and Risk Management for Autonomous Railway Convoys. , 2008, , .                                                                                                              |     | 18        |
| 35 | Safety of component-based systems. , 2008, , .                                                                                                                                                   |     | 2         |
| 36 | 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         |

| #  | ARTICLE                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Considering Runtime Restrictions in Self-Healing Distributed Systems. International Conference on Advanced Networking and Applications, 2007, , . | 0.0 | 1         |
| 38 | Tool integration at the meta-model level: the Fujaba approach. International Journal on Software Tools for Technology Transfer, 2004, 6, 203-218. | 1.7 | 54        |
| 39 | Reporting about industrial strength software engineering courses for undergraduates. , 2002, , .                                                  |     | 10        |