

# Joachim Denil

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38  
papers

199  
citations

7  
h-index

12  
g-index

45  
ext. papers

285  
ext. citations

0.9  
avg, IF

3.18  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 38 | A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems <b>2013</b> ,                                 |     | 33        |
| 37 | FTG+PM: An Integrated Framework for Investigating Model Transformation Chains. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 182-202          | 0.9 | 18        |
| 36 | Search-Based Model Optimization Using Model Transformations. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 80-95                              | 0.9 | 15        |
| 35 | The FTG+PM framework for multi-paradigm modelling <b>2012</b> ,  |     | 14        |
| 34 | Applying Model Driven Engineering Techniques to the Development of Contiki-Based IoT Systems <b>2019</b> ,   |     | 12        |
| 33 | Semantic adaptation for FMI co-simulation with hierarchical simulators. <i>Simulation</i> , <b>2019</b> , 95, 241-269                                    | 1.2 | 9         |
| 32 | Towards domain-specific property languages <b>2013</b> ,   |     | 7         |
| 31 | Exploring Fault Parameter Space Using Reinforcement Learning-based Fault Injection <b>2020</b> ,   |     | 7         |
| 30 | A Framework for Temporal Verification Support in Domain-Specific Modelling. <i>IEEE Transactions on Software Engineering</i> , <b>2020</b> , 46, 362-404 | 3.5 | 7         |
| 29 | Towards evaluating emergent behavior of the internet of things using large scale simulation techniques (wip) <b>2018</b> ,                               |     | 7         |
| 28 | DEVS for AUTOSAR-based system deployment modeling and simulation. <i>Simulation</i> , <b>2017</b> , 93, 489-513  | 1.2 | 6         |
| 27 | Automated testing support for reactive domain-specific modelling languages <b>2016</b> ,   |     | 6         |
| 26 | Incorporation of AUTOSAR in an Embedded Systems Development Process: A Case Study <b>2011</b> ,  |     | 6         |
| 25 | Valid (Re-)Use of Models-of-the-Physics in Cyber-Physical Systems Using Validity Frames <b>2019</b> ,  |     | 5         |
| 24 | Testing IoT systems using a hybrid simulation based testing approach. <i>Computing (Vienna/New York)</i> , <b>2019</b> , 101, 857-872                    | 2.2 | 5         |
| 23 | Model-Implemented Hybrid Fault Injection for Simulink (Tool Demonstrations). <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 71-90              | 0.9 | 5         |
| 22 | Platform-specific Modeling for RIOT based IoT Systems <b>2020</b> ,  |     | 5         |

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|----|--|-----|---|
| 21 | Ontological reasoning for consistency in the design of cyber-physical systems <b>2016</b> ,  |     | 5 |
| 20 | Managing Heterogeneity in Model-Based Systems Engineering of Cyber-Physical Systems <b>2015</b> ,  |     | 4 |
| 19 | Validating Industrial Requirements with a Contract-Based Approach <b>2019</b> ,  |     | 4 |
| 18 | Hint-Based Configuration of Co-simulations with Algebraic Loops. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 1-28                               | 0.4 | 3 |
| 17 | Exploring Validity Frames in Practice. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 131-148   | 3   | 3 |
| 16 | Challenges for Automation in Adaptive Abstraction <b>2019</b> ,  |     | 3 |
| 15 | Leveraging Domain Knowledge for the Efficient Design-Space Exploration of Advanced Cyber-Physical Systems <b>2019</b> ,  |     | 2 |
| 14 | FTG+PM: Describing Engineering Processes in Multi-Paradigm Modelling <b>2020</b> , 259-271   |     | 2 |
| 13 | A Model-Driven Engineering Framework to Support the Functional Safety Process <b>2019</b> ,  |     | 2 |
| 12 | Reducing Computational Cost Of Large-Scale Simulations Using Opportunistic Model Approximation <b>2019</b> ,   |     | 2 |
| 11 | Validity frame concept as effort-cutting technique within the verification and validation of complex cyber-physical systems <b>2020</b> ,                                |     | 1 |
| 10 | An Architecture and Reference Implementation for WSN-Based IoT Systems. <i>Advances in Web Technologies and Engineering Book Series</i> , <b>2022</b> , 80-103           | 0.2 | 1 |
| 9  | Ontological Reasoning as an Enabler of Contract-Based Co-design. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 101-115  | 0.9 | 0 |
| 8  | Ontological reasoning in the design space exploration of advanced cyber-physical systems. <i>Microprocessors and Microsystems</i> , <b>2021</b> , 85, 104151             | 2.4 | 0 |
| 7  | Validity Frame Driven Computational Design Synthesis for Complex Cyber-Physical Systems. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 82-90 | 0.3 |   |
| 6  | Migrating from a Proprietary RTOS to the OSEK Standard Using a Wrapper. <i>Lecture Notes in Electrical Engineering</i> , <b>2011</b> , 241-254                           | 0.2 |   |
| 5  | Challenges of Modeling and Simulating Internet of Things Systems. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 457-466       | 0.4 |   |
| 4  | Machine Learning-Based Fault Injection for Hazard Analysis and Risk Assessment. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 178-192                         | 0.9 |   |

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| 3 | Adaptivity in Distributed Agent-Based Simulation: A Generic Load-Balancing Approach. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 1-12             | 0.9 |
| 2 | Acsim: Towards Hyper-scalable Internet of Things Simulation. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 743-750  | 0.4 |
| 1 | The Digital Twin as a Common Knowledge Base in DevOps to Support Continuous System Evolution. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 158-170 | 0.9 |