Joachim Denil

List of Publications by Year
in descending order

44 papers	362 citations	1306789 7 h-index	1199166 12 g-index
45 all docs	45 docs citations	45 times ranked	225 citing authors

#	Article	IF	Citations
1	A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems. , 2013, , .		36
2	FTG+PM: An Integrated Framework for Investigating Model Transformation Chains. Lecture Notes in Computer Science, 2013, , 182-202.	1.0	28
3	The FTG+PM framework for multi-paradigm modelling. , 2012, , .		24
4	Applying Model Driven Engineering Techniques to the Development of Contiki-Based IoT Systems. , 2019, , .		22
5	Testing IoT systems using a hybrid simulation based testing approach. Computing (Vienna/New York), 2019, 101, 857-872.	3.2	18
6	Semantic adaptation for FMI co-simulation with hierarchical simulators. Simulation, 2019, 95, 241-269.	1.1	18
7	Exploring Fault Parameter Space Using Reinforcement Learning-based Fault Injection. , 2020, , .		18
8	Search-Based Model Optimization Using Model Transformations. Lecture Notes in Computer Science, 2014, , 80-95.	1.0	17
9	Valid (Re-)Use of Models-of-the-Physics in Cyber-Physical Systems Using Validity Frames. , 2019, , .		13
10	Platform-specific Modeling for RIOT based IoT Systems. , 2020, , .		13
11	Ontological reasoning for consistency in the design of cyber-physical systems. , 2016, , .		12
12	DEVS for AUTOSAR-based system deployment modeling and simulation. Simulation, 2017, 93, 489-513.	1.1	11
13	Exploring Validity Frames in Practice. Communications in Computer and Information Science, 2020, , 131-148.	0.4	10
14	Incorporation of AUTOSAR in an Embedded Systems Development Process: A Case Study. , 2011, , .		9
15	Automated testing support for reactive domain-specific modelling languages. , 2016, , .		9
16	Towards evaluating emergent behavior of the internet of things using large scale simulation techniques (wip). , 2018, , .		9
17	A Model-Driven Engineering Framework to Support the Functional Safety Process. , 2019, , .		8
18	Validating Industrial Requirements with a Contract-Based Approach. , 2019, , .		8

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19	A Framework for Temporal Verification Support in Domain-Specific Modelling. IEEE Transactions on Software Engineering, 2020, 46, 362-404.	4.3	8
20	Towards domain-specific property languages. , 2013, , .		7
21	Hint-Based Configuration of Co-simulations with Algebraic Loops. Advances in Intelligent Systems and Computing, 2021, , 1-28.	0.5	7
22	FTG+PM: Describing Engineering Processes in Multi-Paradigm Modelling. , 2020, , 259-271.		6
23	Model-Implemented Hybrid Fault Injection for Simulink (Tool Demonstrations). Lecture Notes in Computer Science, 2019, , 71-90.	1.0	5
24	Leveraging Domain Knowledge for the Efficient Design-Space Exploration of Advanced Cyber-Physical Systems. , 2019, , .		5
25	The Digital Twin as a Common Knowledge Base in DevOps to Support Continuous System Evolution. Lecture Notes in Computer Science, 2021, , 158-170.	1.0	5
26	Managing Heterogeneity in Model-Based Systems Engineering of Cyber-Physical Systems. , 2015, , .		4
27	A Library of Embedded Platform Components for the Simulation of Real-Time Embedded Systems. , 2019, , .		4
28	Challenges for Automation in Adaptive Abstraction. , 2019, , .		4
29	Ontological reasoning in the design space exploration of advanced cyberâ€“physical systems. Microprocessors and Microsystems, 2021, 85, 104151.	1.8	4
30	Specifying and Executing the Combination of Timed Finite State Automata and Causal-Block Diagrams by Mapping Onto Devs. , 2021, , .		4
31	Validity Frame Driven Computational Design Synthesis for Complex Cyber-Physical Systems. Communications in Computer and Information Science, 2020, , 82-90.	0.4	3
32	Reducing Computational Cost Of Large-Scale Simulations Using Opportunistic Model Approximation. , 2019, , .		2
33	Machine Learning-Based Fault Injection for Hazard Analysis and Risk Assessment. Lecture Notes in Computer Science, 2021, , 178-192.	1.0	2
34	Validity frame concept as effort-cutting technique within the verification and validation of complex cyber-physical systems. , 2020, , .		2
35	Ontological Reasoning as an Enabler of Contract-Based Co-design. Lecture Notes in Computer Science, 2017, , 101-115.	1.0	2
36	Automatic Generation of Workflows for Efficient Design Space Exploration for Cyber-Physical Systems. , 2021, , .		2

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37	Challenges of Modeling and Simulating Internet of Things Systems. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 457-466.	0.5	1
38	Validity Frame Supported Digital Twin Design of Complex Cyber-Physical Systems. , 2021, , .		1
39	An Architecture and Reference Implementation for WSN-Based IoT Systems. Advances in Web Technologies and Engineering Book Series, 2022, , 80-103.	0.4	1
40	Acsim: Towards Hyper-scalable Internet ofÂThings Simulation. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 743-750.	0.5	0
41	Towards Co-simulation of Embedded Platforms and Physics-Based Models. , 2018, , .		0
42	The Fundamentals of Domain-Specific Simulation Language Engineering. , 2019, , .		0
43	Adaptivity in Distributed Agent-Based Simulation: A Generic Load-Balancing Approach. Lecture Notes in Computer Science, 2021, , 1-12.	1.0	0
44	Enabling Design-Space Exploration for Domain-Specific Modelling. , 2017, , .		0