

Hans Vangheluwe

List of Publications by Year in Descending Order

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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.

116
papers

1,402
citations

18
h-index

32
g-index

139
ext. papers

1,698
ext. citations

1.2
avg, IF

4.9
L-index

#	Paper	IF	Citations
116	An Architecture and Reference Implementation for WSN-Based IoT Systems. <i>Advances in Web Technologies and Engineering Book Series</i> , 2022 , 80-103	0.2	1
115	Systematic Literature Review of MBSE Tool-Chains. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3431	2.6	1
114	Hint-Based Configuration of Co-simulations with Algebraic Loops. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 1-28	0.4	3
113	Multi-paradigm modelling for cyberphysical systems: a descriptive framework. <i>Software and Systems Modeling</i> , 2021 , 20, 611-639	1.9	2
112	Machine Learning-Based Fault Injection for Hazard Analysis and Risk Assessment. <i>Lecture Notes in Computer Science</i> , 2021 , 178-192	0.9	
111	Extending Explicitly Modelled Simulation Debugging Environments with Dynamic Structure. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2020 , 30, 1-25	0.6	
110	Towards employing ABM and MAS integrated with MBSE for the lifecycle of sCPSoS 2020 ,		3
109	FTG+PM: Describing Engineering Processes in Multi-Paradigm Modelling 2020 , 259-271		2
108	Platform-specific Modeling for RIOT based IoT Systems 2020 ,		5
107	Causal-Block Diagrams: A Family of Languages for Causal Modelling of Cyber-Physical Systems 2020 , 97-125		2
106	Generation of Co-simulation Algorithms Subject to Simulator Contracts. <i>Lecture Notes in Computer Science</i> , 2020 , 34-49	0.9	3
105	Exploring Validity Frames in Practice. <i>Communications in Computer and Information Science</i> , 2020 , 131-148	3	3
104	Comparing and classifying model transformation reuse approaches across metamodels. <i>Software and Systems Modeling</i> , 2020 , 19, 441-465	1.9	5
103	A Framework for Temporal Verification Support in Domain-Specific Modelling. <i>IEEE Transactions on Software Engineering</i> , 2020 , 46, 362-404	3.5	7
102	HintCO [Hint-based Configuration of Co-simulations 2019 ,		9
101	Stable Adaptive Co-simulation: A Switched Systems Approach. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2019 , 81-97	0.3	2
100	Semantics of Co-simulation Algorithms with Simulator Contracts 2019 ,		7

99	Introduction to Statecharts Modeling, Simulation, Testing, and Deployment 2019 ,		1
98	A Model-Driven Engineering Framework to Support the Functional Safety Process 2019 ,		2
97	Challenges for Automation in Adaptive Abstraction 2019 ,		3
96	Applying Model Driven Engineering Techniques to the Development of Contiki-Based IoT Systems 2019 ,		12
95	The Computational Notebook Paradigm for Multi-paradigm Modeling 2019 ,		2
94	Towards Adaptive Abstraction in Agent Based Simulation 2019 ,		2
93	Validating Industrial Requirements with a Contract-Based Approach 2019 ,		4
92	Blended Modelling - What, Why and How 2019 ,		8
91	Towards a Formal Specification of Multi-paradigm Modelling 2019 ,		6
90	A Multi-Paradigm Modelling approach to live modelling. <i>Software and Systems Modeling</i> , 2019 , 18, 2821-2842	10	10
89	Semantic adaptation for FMI co-simulation with hierarchical simulators. <i>Simulation</i> , 2019 , 95, 241-269	1.2	9
88	Approximated Stability Analysis of Bi-modal Hybrid Co-simulation Scenarios. <i>Lecture Notes in Computer Science</i> , 2018 , 345-360	0.9	6
87	Scope in model transformations. <i>Software and Systems Modeling</i> , 2018 , 17, 1227-1252	1.9	
86	Model Transformation Reuse Across Metamodels. <i>Lecture Notes in Computer Science</i> , 2018 , 92-109	0.9	2
85	Towards the Verification of Hybrid Co-simulation Algorithms. <i>Lecture Notes in Computer Science</i> , 2018 , 5-20	0.9	11
84	Demo: Stabilization Technique in INTO-CPS. <i>Lecture Notes in Computer Science</i> , 2018 , 45-51	0.9	3
83	DISCRETE EVENT SYSTEM SPECIFICATION MODELING AND SIMULATION 2018 ,		6
82	Minimally, Constrained Stable Switched Systems and Application to Co-Simulation 2018 ,		2

81	Co-simulation: The Past, Future, and Open Challenges. <i>Lecture Notes in Computer Science</i> , 2018 , 504-520	0.9	3
80	Multi-paradigm modelling of cyber-physical systems 2018 ,		3
79	Co-Simulation. <i>ACM Computing Surveys</i> , 2018 , 51, 1-33	13.4	119
78	DEVS for AUTOSAR-based system deployment modeling and simulation. <i>Simulation</i> , 2017 , 93, 489-513	1.2	6
77	Increasing the performance of a Discrete Event System Specification simulator by means of computational resource usage Activity Models. <i>Simulation</i> , 2017 , 93, 1045-1061	1.2	1
76	An evaluation of DEVS simulation tools. <i>Simulation</i> , 2017 , 93, 103-121	1.2	25
75	Debugging Parallel DEVS. <i>Simulation</i> , 2017 , 93, 285-306	1.2	8
74	Classic DEVS modelling and simulation 2017 ,		6
73	Concrete syntax: a multi-paradigm modelling approach 2017 ,		1
72	2017 ,		6
71	The Two-Hemisphere Modelling Approach to the Composition of Cyber-Physical Systems 2017 ,		3
70	Domain-Specific Modelling for Human-Computer Interaction. <i>Human-computer Interaction Series</i> , 2017 , 435-463	0.6	4
69	Ontological Reasoning as an Enabler of Contract-Based Co-design. <i>Lecture Notes in Computer Science</i> , 2017 , 101-115	0.9	0
68	Automated testing support for reactive domain-specific modelling languages 2016 ,		6
67	Ontological reasoning for consistency in the design of cyber-physical systems 2016 ,		5
66	Towards Modular Language Design Using Language Fragments: The Hybrid Systems Case Study. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 785-797	0.4	1
65	Migrating Automotive Product Lines: A Case Study. <i>Lecture Notes in Computer Science</i> , 2015 , 82-97	0.9	12
64	T-Core: a framework for custom-built model transformation engines. <i>Software and Systems Modeling</i> , 2015 , 14, 1215-1243	1.9	16

63	Managing Heterogeneity in Model-Based Systems Engineering of Cyber-Physical Systems 2015 ,		4
62	Formal Verification Techniques for Model Transformations: A Tridimensional Classification .. <i>Journal of Object Technology</i> , 2015 , 14, 1:1	1.4	23
61	Activity in PythonPDEVs. <i>ITM Web of Conferences</i> , 2014 , 3, 01002	0.1	6
60	Domain-specific decision modelling and statistical analysis for combat system effectiveness simulation. <i>Journal of Statistical Computation and Simulation</i> , 2014 , 84, 1261-1279	0.9	4
59	Advances in Model-Driven Security. <i>Advances in Computers</i> , 2014 , 93, 103-152	2.9	18
58	Activity-based simulation using DEVS: increasing performance by an activity model in parallel DEVS simulation. <i>Journal of Zhejiang University: Science C</i> , 2014 , 15, 13-30		4
57	ProMoBox: A Framework for Generating Domain-Specific Property Languages. <i>Lecture Notes in Computer Science</i> , 2014 , 1-20	0.9	15
56	Dynamic Scope Discovery for Model Transformations. <i>Lecture Notes in Computer Science</i> , 2014 , 302-321	0.9	2
55	Search-Based Model Optimization Using Model Transformations. <i>Lecture Notes in Computer Science</i> , 2014 , 80-95	0.9	15
54	A modular timed graph transformation language for simulation-based design. <i>Software and Systems Modeling</i> , 2013 , 12, 387-414	1.9	21
53	A multi-paradigm decision modeling framework for combat system effectiveness measurement based on domain-specific modeling. <i>Journal of Zhejiang University: Science C</i> , 2013 , 14, 311-331		5
52	A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems 2013 ,		33
51	Towards domain-specific property languages 2013 ,		7
50	Modeling a Model Transformation Language 2013 , 211-237		10
49	FTG+PM: An Integrated Framework for Investigating Model Transformation Chains. <i>Lecture Notes in Computer Science</i> , 2013 , 182-202	0.9	18
48	Modular artifact synthesis from domain-specific models. <i>Innovations in Systems and Software Engineering</i> , 2012 , 8, 65-77	1.1	1
47	Invariant preservation in iterative modeling 2012 ,		1
46	The FTG+PM framework for multi-paradigm modelling 2012 ,		14

45	A Tridimensional Approach for Studying the Formal Verification of Model Transformations 2012 ,		25
44	Summary of the Workshop on Multi-Paradigm Modelling: Concepts and Tools. <i>Lecture Notes in Computer Science</i> , 2012 , 83-88	0.9	
43	A framework for evolution of modelling languages. <i>Science of Computer Programming</i> , 2011 , 76, 1223-1246		37
42	Debugging in Domain-Specific Modelling. <i>Lecture Notes in Computer Science</i> , 2011 , 276-285	0.9	7
41	Summary of the Workshop on Multi-Paradigm Modelling: Concepts and Tools. <i>Lecture Notes in Computer Science</i> , 2011 , 274-278	0.9	
40	Towards Domain-specific Model Editors with Automatic Model Completion. <i>Simulation</i> , 2010 , 86, 109-126.2		31
39	Modular synthesis of mobile device applications from domain-specific models 2010 ,		10
38	Domain-specific engineering of domain-specific languages 2010 ,		6
37	Activity regions for the specification of discrete event systems 2010 ,		7
36	Automating the transformation-based analysis of visual languages. <i>Formal Aspects of Computing</i> , 2010 , 22, 297-326	1.2	17
35	DEVS as a Semantic Domain for Programmed Graph Transformation. <i>Computational Analysis, Synthesis, and Design of Dynamic Models Series</i> , 2010 , 3-28		2
34	Explicit Transformation Modeling. <i>Lecture Notes in Computer Science</i> , 2010 , 240-255	0.9	24
33	Exceptional Transformations. <i>Lecture Notes in Computer Science</i> , 2010 , 199-214	0.9	6
32	3 Metamodelling. <i>Lecture Notes in Computer Science</i> , 2010 , 57-76	0.9	22
31	MDE and customization of modeling and simulation web applications. <i>Simulation Modelling Practice and Theory</i> , 2009 , 17, 408-429	3.9	6
30	Model transformation of dependability-focused requirements models 2009 ,		6
29	Rapid Development of Scoped User Interfaces. <i>Lecture Notes in Computer Science</i> , 2009 , 816-825	0.9	2
28	Privacy-Preserving Telemonitoring for eHealth. <i>Lecture Notes in Computer Science</i> , 2009 , 95-110	0.9	13

27	A Privacy-Preserving eHealth Protocol Compliant with the Belgian Healthcare System. <i>Lecture Notes in Computer Science</i> , 2008 , 118-133	0.9	8
26	Model-driven assessment of system dependability. <i>Software and Systems Modeling</i> , 2008 , 7, 487-502	1.9	31
25	Transforming Timeline Specifications into Automata for Runtime Monitoring. <i>Lecture Notes in Computer Science</i> , 2008 , 249-264	0.9	1
24	Second International Workshop on Multi-Paradigm Modeling: Concepts and Tools. <i>Lecture Notes in Computer Science</i> , 2008 , 237-246	0.9	5
23	Programmed Graph Rewriting with Time for Simulation-Based Design. <i>Lecture Notes in Computer Science</i> , 2008 , 91-106	0.9	10
22	Translating Model Simulators to Analysis Models. <i>Lecture Notes in Computer Science</i> , 2008 , 77-92	0.9	10
21	Programmed Graph Rewriting with DEVS. <i>Lecture Notes in Computer Science</i> , 2008 , 136-151	0.9	7
20	Kiltera: A Simulation Language for Timed, Dynamic Structure Systems 2007 ,		5
19	A modelling and simulation based process for dependable systems design. <i>Software and Systems Modeling</i> , 2007 , 6, 437-451	1.9	3
18	Domain-Specific Model Editors with Model Completion. <i>Lecture Notes in Computer Science</i> , 2007 , 259-270.	0.9	7
17	Summary of the Workshop on Multi-Paradigm Modeling: Concepts and Tools. <i>Lecture Notes in Computer Science</i> , 2007 , 252-262	0.9	9
16	Anonymous k-Show Credentials. <i>Lecture Notes in Computer Science</i> , 2007 , 181-192	0.9	4
15	Model-Based Design of Computer-Controlled Game Character Behavior. <i>Lecture Notes in Computer Science</i> , 2007 , 650-665	0.9	4
14	Multi-domain physical system modeling and control based on meta-modeling and graph rewriting 2006 ,		1
13	Model-Based Development 2006 , 289-312		
12	Model-Driven Assessment of Use Cases for Dependable Systems. <i>Lecture Notes in Computer Science</i> , 2006 , 558-573	0.9	6
11	A Modelling and Simulation Based Approach to Dependable System Design. <i>Lecture Notes in Computer Science</i> , 2005 , 217-231	0.9	1
10	Computer Automated Multi-Paradigm Modeling: An Introduction. <i>Simulation</i> , 2004 , 80, 433-450	1.2	83

9	Defining visual notations and their manipulation through meta-modelling and graph transformation. <i>Journal of Visual Languages and Computing</i> , 2004 , 15, 309-330		37
8	Meta-modelling and graph grammars for multi-paradigm modelling in AToM3. <i>Software and Systems Modeling</i> , 2004 , 3, 194-209	1.9	51
7	Meta-Modelling, Graph Transformation and Model Checking for the Analysis of Hybrid Systems. <i>Lecture Notes in Computer Science</i> , 2004 , 292-298	0.9	2
6	WEST: modelling biological wastewater treatment. <i>Journal of Hydroinformatics</i> , 2003 , 5, 27-50	2.6	104
5	Using Meta-Modelling and Graph Grammars to Create Modelling Environments. <i>Electronic Notes in Theoretical Computer Science</i> , 2003 , 72, 36-50	0.7	6
4	AToM3: A Tool for Multi-formalism and Meta-modelling. <i>Lecture Notes in Computer Science</i> , 2002 , 174-188	9	148
3	Computer Aided Multi-paradigm Modelling to Process Petri-Nets and Statecharts. <i>Lecture Notes in Computer Science</i> , 2002 , 239-253	0.9	24
2	The Process of Model Building and Simulation of Ill-Defined Systems: Application to Wastewater Treatment. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 1999 , 5, 298-312	1	4
1	Web-based simulation of systems described by partial differential equations		1