

Peter Gorm Larsen

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.

122
papers

1,639
citations

17
h-index

38
g-index

136
ext. papers

1,931
ext. citations

1.6
avg, IF

4.87
L-index

#	Paper	IF	Citations
122	Formal methods. <i>ACM Computing Surveys</i> , 2009 , 41, 1-36	13.4	340
121	Systems of Systems Engineering. <i>ACM Computing Surveys</i> , 2015 , 48, 1-41	13.4	177
120	Co-Simulation. <i>ACM Computing Surveys</i> , 2018 , 51, 1-33	13.4	119
119	The overture initiative integrating tools for VDM. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2010 , 35, 1-6	0.4	82
118	The IFAD VDM-SL toolbox. <i>ACM SIGPLAN Notices</i> , 1994 , 29, 77-80	0.2	55
117	Integrated tool chain for model-based design of Cyber-Physical Systems: The INTO-CPS project 2016 ,		54
116	Modelling Systems: Practical Tools and Techniques in Software Development 2009 ,		54
115	Modeling and Validating Distributed Embedded Real-Time Systems with VDM++. <i>Lecture Notes in Computer Science</i> , 2006 , 147-162	0.9	54
114	Features of CML: A formal modelling language for Systems of Systems 2012 ,		45
113	Maestro: The INTO-CPS co-simulation framework. <i>Simulation Modelling Practice and Theory</i> , 2019 , 92, 45-61	3.9	34
112	An overview of the ISO/VDM-SL standard. <i>ACM SIGPLAN Notices</i> , 1992 , 27, 76-82	0.2	31
111	Collaborative Design for Embedded Systems 2014 ,		29
110	Cyber-Physical Systems Design: Formal Foundations, Methods and Integrated Tool Chains 2015 ,		28
109	Incremental Development of a Distributed Real-Time Model of a Cardiac Pacing System Using VDM 2008 , 181-197		25
108	A Formal Semantics of Data Flow Diagrams. <i>Formal Aspects of Computing</i> , 1994 , 6, 586-606	1.2	20
107	COMPASS tool vision for a system of systems Collaborative Development Environment 2012 ,		18
106	Collaborative Model-based Systems Engineering for Cyber-Physical Systems, with a Building Automation Case Study. <i>In cose International Symposium</i> , 2016 , 26, 817-832	0.4	17

105	A multidisciplinary engineering summer school in an industrial setting. <i>European Journal of Engineering Education</i> , 2009 , 34, 511-526	1.5	17
104	Vienna Development Method 2008 , 1		17
103	An executable subset of Meta-IV with loose specification. <i>Lecture Notes in Computer Science</i> , 1991 , 604-618		16
102	Multi-modelling and Co-simulation in the Engineering of Cyber-Physical Systems: Towards the Digital Twin. <i>Lecture Notes in Computer Science</i> , 2019 , 40-55	0.9	15
101	Towards Semantically Integrated Models and Tools for Cyber-Physical Systems Design. <i>Lecture Notes in Computer Science</i> , 2016 , 171-186	0.9	15
100	Combinatorial Testing for VDM 2010 ,		13
99	Semantics of under-determined expressions. <i>Formal Aspects of Computing</i> , 1996 , 8, 47-66	1.2	13
98	Distributed Co-Simulation of Embedded Control Software with Exhaust Gas Recirculation Water Handling System using INTO-CPS 2017 ,		13
97	Collaborative Modelling and Co-simulation in the Development of Dependable Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 12-26	0.9	13
96	A Lightweight Approach to Formal Methods. <i>Lecture Notes in Computer Science</i> , 1999 , 168-183	0.9	13
95	A formal approach to collaborative modelling and co-simulation for embedded systems□ <i>Mathematical Structures in Computer Science</i> , 2013 , 23, 726-750	0.5	12
94	The formal semantics of ISO VDM-SL. <i>Computer Standards and Interfaces</i> , 1995 , 17, 585-601	3.5	12
93	Foundations for Model-Based Engineering of Systems of Systems 2014 , 1-19		12
92	Features of Integrated Model-Based Co-modelling and Co-simulation Technology. <i>Lecture Notes in Computer Science</i> , 2018 , 377-390	0.9	12
91	Industrial Practice in Formal Methods: A Review. <i>Lecture Notes in Computer Science</i> , 2009 , 810-813	0.9	11
90	Towards the Verification of Hybrid Co-simulation Algorithms. <i>Lecture Notes in Computer Science</i> , 2018 , 5-20	0.9	11
89	Combining VDM with Executable Code. <i>Lecture Notes in Computer Science</i> , 2012 , 266-279	0.9	11
88	Development of a Driverless Lawn Mower Using Co-simulation. <i>Lecture Notes in Computer Science</i> , 2018 , 330-344	0.9	10

87	A Deterministic Interpreter Simulating a Distributed Real Time System Using VDM. <i>Lecture Notes in Computer Science</i> , 2011 , 179-194	0.9	10
86	From Embedded to Cyber-Physical Systems: Challenges and Future Directions 2014 , 293-303		8
85	Practice-oriented courses in formal methods using VDM++. <i>Formal Aspects of Computing</i> , 2009 , 21, 245-257		8
84	Combining VDM-SL specifications with C++ code. <i>Lecture Notes in Computer Science</i> , 1996 , 179-194	0.9	8
83	Automated translation of VDM to JML-annotated Java. <i>International Journal on Software Tools for Technology Transfer</i> , 2018 , 20, 211-235	1.3	7
82	Co-modelling and co-simulation in the engineering of systems of cyber-physical systems 2014 ,		7
81	Enhancing non-technical skills by a multidisciplinary engineering summer school. <i>European Journal of Engineering Education</i> , 2017 , 42, 1076-1096	1.5	7
80	Validation Support for Distributed Real-Time Embedded Systems in VDM++ 2007 ,		7
79	Design support and tooling for dependable embedded control software 2010 ,		6
78	Triumphs and Challenges for Model-Oriented Formal Methods: The VDM++ Experience (Abstract) 2006 ,		6
77	Multi-Paradigm Discrete-Event Modelling and Co-simulation of Cyber-Physical Systems. <i>Studies in Informatics and Control</i> , 2018 , 27,	2.1	6
76	Connecting UML and VDM++ with Open Tool Support. <i>Lecture Notes in Computer Science</i> , 2009 , 563-578	0.9	6
75	The Harvest Coach Architecture: Embedding Deviation-Tolerance in a Harvest Logistic Solution. <i>Computers</i> , 2019 , 8, 31	1.9	5
74	A holistic approach to energy-aware design of cyber-physical systems. <i>International Journal of Embedded Systems</i> , 2017 , 9, 283	0.5	5
73	Extending VDM-RT to enable the formal modelling of System of Systems 2012 ,		5
72	Balancing Insight and Effort: The Industrial Uptake of Formal Methods 2007 , 237-254		5
71	Migrating the INTO-CPS Application to the Cloud. <i>Lecture Notes in Computer Science</i> , 2020 , 254-271	0.9	5
70	Towards Reuse of Synchronization Algorithms in Co-simulation Frameworks. <i>Lecture Notes in Computer Science</i> , 2020 , 50-66	0.9	5

69	Injecting Formal Verification in FMI-Based Co-simulations of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 284-299	0.9	5
68	Proof Obligation Generation and Discharging for Recursive Definitions in VDM. <i>Lecture Notes in Computer Science</i> , 2010 , 40-55	0.9	5
67	Industrial Deployment of Formal Methods: Trends and Challenges 2013 , 123-143		5
66	Uncertainty Quantification and Runtime Monitoring Using Environment-Aware Digital Twins. <i>Lecture Notes in Computer Science</i> , 2021 , 72-87	0.9	5
65	PICGAL: Practical use of formal specification to develop a complex critical system. <i>Lecture Notes in Computer Science</i> , 1997 , 221-236	0.9	5
64	VDMPad: A Lightweight IDE for Exploratory VDM-SL Specification 2015 ,		4
63	Robotic Design Choice Overview Using Co-Simulation and Design Space Exploration. <i>Robotics</i> , 2015 , 4, 398-420	2.8	4
62	Towards a Digital Twin Framework for Autonomous Robots 2021 ,		4
61	Code generation for distributed embedded systems with VDM-RT. <i>Design Automation for Embedded Systems</i> , 2019 , 23, 153-177	0.6	4
60	A secure dynamic collaboration environment in a cloud context. <i>Future Generation Computer Systems</i> , 2016 , 55, 165-175	7.5	3
59	An approach for managing semantic heterogeneity in Systems of Systems Engineering 2014 ,		3
58	Proving consistency of VDM models using HOL 2010 ,		3
57	Response to the formal specification of safety requirements for storing explosives <i>Formal Aspects of Computing</i> , 1994 , 6, 565-568	1.2	3
56	Facilitating model-based design of cyber-manufacturing systems. <i>Procedia CIRP</i> , 2021 , 104, 1936-1941	1.8	3
55	Towards Enabling Overture as a Platform for Formal Notation IDEs. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> , 187 , 14-27		3
54	Distributed Co-simulation of Embedded Control Software Using INTO-CPS. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 33-54	0.4	3
53	Demo: Stabilization Technique in INTO-CPS. <i>Lecture Notes in Computer Science</i> , 2018 , 45-51	0.9	3
52	Generation of Co-simulation Algorithms Subject to Simulator Contracts. <i>Lecture Notes in Computer Science</i> , 2020 , 34-49	0.9	3

51	Support for Co-modelling and Co-simulation: The Crescendo Tool 2014 , 97-114		3
50	Co-simulation: The Past, Future, and Open Challenges. <i>Lecture Notes in Computer Science</i> , 2018 , 504-520	0.9	3
49	A Survey of Practical Formal Methods for Security. <i>Formal Aspects of Computing</i> ,	1.2	3
48	Realization of distributed system models using code generation extensions. <i>Software - Practice and Experience</i> , 2019 , 49, 478-497	2.5	2
47	A Formal Modeling Tool for Exploratory Modeling in Software Development. <i>IEICE Transactions on Information and Systems</i> , 2017 , E100.D, 1210-1217	0.6	2
46	Collaborative Modelling and Co-simulation in Engineering and Computing Curricula. <i>Lecture Notes in Computer Science</i> , 2020 , 196-213	0.9	2
45	Formalising and Validating the Interface Description in the FMI Standard. <i>Lecture Notes in Computer Science</i> , 2016 , 344-351	0.9	2
44	Enabling continuous integration in a formal methods setting. <i>International Journal on Software Tools for Technology Transfer</i> , 2020 , 22, 667-683	1.3	2
43	The IFAD VDM Tools. <i>Lecture Notes in Computer Science</i> , 1999 , 326-329	0.9	2
42	Evaluation of underdetermined explicit definitions. <i>Lecture Notes in Computer Science</i> , 1994 , 233-250	0.9	2
41	ViennaTalk and Assertch 2016 ,		1
40	The evolution of VDM tools from the 1990s to 2015 and the influence of CAMILA. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2016 , 85, 985-998	1	1
39	Security analysis of cloud-connected industrial control systems using combinatorial testing 2019 ,		1
38	Collaborative formal modeling of System of Systems 2014 ,		1
37	Model checking CML: tool development and industrial applications. <i>Formal Aspects of Computing</i> , 2015 , 27, 975-1001	1.2	1
36	Developing a Physical and Digital Twin: An Example Process Model 2021 ,		1
35	On the Design of a New Software Engineering Curriculum in Computer Engineering. <i>Lecture Notes in Computer Science</i> , 2020 , 178-195	0.9	1
34	Cyber-Physical Systems Engineering: An Introduction. <i>Lecture Notes in Computer Science</i> , 2018 , 407-410	0.9	1

33	Towards Proof Rules for Looseness in Explicit Definitions from VDM-SL. <i>Workshops in Computing</i> , 1994 , 118-134		1
32	Collaborative Development of Dependable Cyber-Physical Systems by Co-Modeling and Co-Simulation. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2014 , 1-28	0.4	1
31	Contracts in CML. <i>Lecture Notes in Computer Science</i> , 2014 , 54-73	0.9	1
30	Collaborative Systems of Systems Need Collaborative Design. <i>Lecture Notes in Computer Science</i> , 2014 , 16-23	0.9	1
29	A Non-unified View of Modelling, Specification and Programming. <i>Lecture Notes in Computer Science</i> , 2018 , 52-68	0.9	1
28	Towards a Static Check of FMUs in VDM-SL. <i>Lecture Notes in Computer Science</i> , 2020 , 272-288	0.9	0
27	Co-model Structuring and Design Patterns 2014 , 115-137		0
26	Industrial digitalization in the industry 4.0 era: Classification, reuse and authoring of digital models on Digital Twin platforms. <i>Array</i> , 2022 , 100176	4.7	0
25	The Elements of a Formal Model77-98		
24	Describing System Properties Using Logical Expressions55-76		
23	Constructing a Model13-34		
22	VDMTools Lite35-54		
21	Mappings137-156		
20	Recursive Structures157-170		
19	Validating Models171-188		
18	State-Based Modelling189-202		
17	Large-Scale Modelling203-216		
16	Using VDM in Practice217-234		

15 Language Guide 235-262

14 Using VDMTools to Model and Validate the Cash Dispenser Example. *Formal Aspects of Computing*, **2000**, 12, 216-217 1.2

13 From Software Specifications to Constraint Programming. *Lecture Notes in Computer Science*, **2018**, 21-36.9

12 ViennaDoc: An Animatable and Testable Specification Documentation Tool. *Lecture Notes in Computer Science*, **2020**, 289-302 0.9

11 Energy-Aware Model-Driven Development of a Wearable Healthcare Device. *Lecture Notes in Computer Science*, **2017**, 44-63 0.9

10 Industrial Application of Co-modelling and Co-simulation Technology **2014**, 223-259

9 Discrete-Event Modelling in VDM **2014**, 61-95

8 Deploying Co-modelling in Commercial Practice **2014**, 263-271

7 Semantics of Co-simulation **2014**, 273-292

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5 Introducing Regression Tests and Upgrades to the INTO-CPS Application. *Lecture Notes in Computer Science*, **2021**, 311-317 0.9

4 Estimating the maximum allowable delay bound for networked control systems using co-simulation and design space exploration **2021**, 257-280

3 Multi-paradigm modelling and co-simulation in prototyping a cyber-physical production system **2021**, 169-194

2 HUBCAP: A Novel Collaborative Approach to Model-Based Design of Cyber-Physical Systems. *Lecture Notes in Networks and Systems*, **2022**, 90-110 0.5

1 The Specification Language Server Protocol: A Proposal for Standardised LSP Extensions. *Electronic Proceedings in Theoretical Computer Science*, *EPTCS*, 338, 3-18