## Peter Gorm Larsen

## 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.

122<br/>papers1,639<br/>citations17<br/>h-index38<br/>g-index136<br/>ext. papers1,931<br/>ext. citations1.6<br/>avg, IF4.87<br/>L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 122 | HUBCAP: A Novel Collaborative Approach to Model-Based Design of Cyber-Physical Systems.<br>Lecture Notes in Networks and Systems, <b>2022</b> , 90-110                  | 0.5 |           |
| 121 | Industrial digitalization in the industry 4.0 era: Classification, reuse and authoring of digital models on Digital Twin platforms. <i>Array</i> , <b>2022</b> , 100176 | 4.7 | 0         |
| 120 | Developing a Physical and Digital Twin: An Example Process Model <b>2021</b> ,  |     | 1         |
| 119 | Facilitating model-based design of cyber-manufacturing systems. <i>Procedia CIRP</i> , <b>2021</b> , 104, 1936-1941   | 1.8 | 3         |
| 118 | Towards a Digital Twin Framework for Autonomous Robots <b>2021</b> ,  |     | 4         |
| 117 | Introducing Regression Tests and Upgrades to the INTO-CPS Application. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 311-317                                 | 0.9 |           |
| 116 | Estimating the maximum allowable delay bound for networked control systems using co-simulation and design space exploration <b>2021</b> , 257-280                       |     |           |
| 115 | Multi-paradigm modelling and co-simulation in prototyping a cyber-physical production system <b>2021</b> , 169-194  |     |           |
| 114 | Uncertainty Quantification and Runtime Monitoring Using Environment-Aware Digital Twins. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 72-87                 | 0.9 | 5         |
| 113 | On the Design of a New Software Engineering Curriculum in Computer Engineering. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 178-195                        | 0.9 | 1         |
| 112 | ViennaDoc: An Animatable and Testable Specification Documentation Tool. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 289-302                                | 0.9 |           |
| 111 | Towards a Static Check of FMUs in VDM-SL. Lecture Notes in Computer Science, 2020, 272-288  | 0.9 | 0         |
| 110 | Migrating the INTO-CPS Application to the Cloud. Lecture Notes in Computer Science, 2020, 254-271   | 0.9 | 5         |
| 109 | Generation of Co-simulation Algorithms Subject to Simulator Contracts. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 34-49                                   | 0.9 | 3         |
| 108 | Towards Reuse of Synchronization Algorithms in Co-simulation Frameworks. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 50-66                                 | 0.9 | 5         |
| 107 | Collaborative Modelling and Co-simulation in Engineering and Computing Curricula. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 196-213                      | 0.9 | 2         |
| 106 | Enabling continuous integration in a formal methods setting. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2020</b> , 22, 667-683         | 1.3 | 2         |

## (2018-2020)

| 105 | Editorial to the theme section on model-based engineering of smart systems. <i>Software and Systems Modeling</i> , <b>2020</b> , 19, 579-580                             | 1.9         |    |  |
|-----|--|-------------|----|--|
| 104 | The Harvest Coach Architecture: Embedding Deviation-Tolerance in a Harvest Logistic Solution. <i>Computers</i> , <b>2019</b> , 8, 31                                     | 1.9         | 5  |  |
| 103 | Realization of distributed system models using code generation extensions. <i>Software - Practice and Experience</i> , <b>2019</b> , 49, 478-497                         | 2.5         | 2  |  |
| 102 | Security analysis of cloud-connected industrial control systems using combinatorial testing 2019,  |             | 1  |  |
| 101 | Distributed Co-simulation of Embedded Control Software Using INTO-CPS. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 33-54                        | 0.4         | 3  |  |
| 100 | Multi-modelling and Co-simulation in the Engineering of Cyber-Physical Systems: Towards the Digital Twin. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 40-55 | 0.9         | 15 |  |
| 99  | Code generation for distributed embedded systems with VDM-RT. <i>Design Automation for Embedded Systems</i> , <b>2019</b> , 23, 153-177                                  | 0.6         | 4  |  |
| 98  | Maestro: The INTO-CPS co-simulation framework. <i>Simulation Modelling Practice and Theory</i> , <b>2019</b> , 92, 45-61   | 3.9         | 34 |  |
| 97  | Automated translation of VDM to JML-annotated Java. <i>International Journal on Software Tools for Technology Transfer</i> , <b>2018</b> , 20, 211-235                   | 1.3         | 7  |  |
| 96  | Multi-Paradigm Discrete-Event Modelling and Co-simulation of Cyber-Physical Systems. <i>Studies in Informatics and Control</i> , <b>2018</b> , 27,                       | 2.1         | 6  |  |
| 95  | From Software Specifications to Constraint Programming. Lecture Notes in Computer Science, 2018, 21-3  | <b>6</b> .9 |    |  |
| 94  | Cyber-Physical Systems Engineering: An Introduction. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 407-410  | 0.9         | 1  |  |
| 93  | Towards the Verification of Hybrid Co-simulation Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 5-20   | 0.9         | 11 |  |
| 92  | Demo: Stabilization Technique in INTO-CPS. Lecture Notes in Computer Science, 2018, 45-51  | 0.9         | 3  |  |
| 91  | Injecting Formal Verification in FMI-Based Co-simulations of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 284-299                    | 0.9         | 5  |  |
| 90  | Development of a Driverless Lawn Mower Using Co-simulation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 330-344   | 0.9         | 10 |  |
| 89  | Features of Integrated Model-Based Co-modelling and Co-simulation Technology. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 377-390                           | 0.9         | 12 |  |
| 88  | Co-simulation: The Past, Future, and Open Challenges. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 504-520   | 0.9         | 3  |  |

| 87 | A Non-unified View of Modelling, Specification and Programming. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 52-68   | 0.9  | 1   |
|----|--|------|-----|
| 86 | Co-Simulation. ACM Computing Surveys, 2018, 51, 1-33   | 13.4 | 119 |
| 85 | A Formal Modeling Tool for Exploratory Modeling in Software Development. <i>IEICE Transactions on Information and Systems</i> , <b>2017</b> , E100.D, 1210-1217                    | 0.6  | 2   |
| 84 | Enhancing non-technical skills by a multidisciplinary engineering summer school. <i>European Journal of Engineering Education</i> , <b>2017</b> , 42, 1076-1096                    | 1.5  | 7   |
| 83 | A holistic approach to energy-aware design of cyber-physical systems. <i>International Journal of Embedded Systems</i> , <b>2017</b> , 9, 283                                      | 0.5  | 5   |
| 82 | Distributed Co-Simulation of Embedded Control Software with Exhaust Gas Recirculation Water Handling System using INTO-CPS <b>2017</b> ,   |      | 13  |
| 81 | Energy-Aware Model-Driven Development of a Wearable Healthcare Device. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 44-63  | 0.9  |     |
| 80 | ViennaTalk and Assertch <b>2016</b> ,  |      | 1   |
| 79 | Collaborative Model-based Systems Engineering for Cyber-Physical Systems, with a Building Automation Case Study. <i>Incose International Symposium</i> , <b>2016</b> , 26, 817-832 | 0.4  | 17  |
| 78 | Integrated tool chain for model-based design of Cyber-Physical Systems: The INTO-CPS project <b>2016</b> ,   |      | 54  |
| 77 | A secure dynamic collaboration environment in a cloud context. <i>Future Generation Computer Systems</i> , <b>2016</b> , 55, 165-175   | 7·5  | 3   |
| 76 | 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> , <b>2016</b> , 85, 985-998          | 1    | 1   |
| 75 | Towards Semantically Integrated Models and Tools for Cyber-Physical Systems Design. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 171-186                               | 0.9  | 15  |
| 74 | Formalising and Validating the Interface Description in the FMI Standard. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 344-351   | 0.9  | 2   |
| 73 | Systems of Systems Engineering. ACM Computing Surveys, 2015, 48, 1-41  | 13.4 | 177 |
| 72 | Cyber-Physical Systems Design: Formal Foundations, Methods and Integrated Tool Chains <b>2015</b> ,  |      | 28  |
| 71 | VDMPad: A Lightweight IDE for Exploratory VDM-SL Specification <b>2015</b> ,   |      | 4   |
| 70 | Robotic Design Choice Overview Using Co-Simulation and Design Space Exploration. <i>Robotics</i> , <b>2015</b> , 4, 398-420  | 2.8  | 4   |

## (2013-2015)

| 69 | Model checking CML: tool development and industrial applications. <i>Formal Aspects of Computing</i> , <b>2015</b> , 27, 975-1001   | 1.2 | 1  |
|----|---|-----|----|
| 68 | Collaborative formal modeling of System of Systems <b>2014</b> ,  |     | 1  |
| 67 | Co-modelling and co-simulation in the engineering of systems of cyber-physical systems 2014,  |     | 7  |
| 66 | Collaborative Design for Embedded Systems <b>2014</b> ,   |     | 29 |
| 65 | From Embedded to Cyber-Physical Systems: Challenges and Future Directions <b>2014</b> , 293-303   |     | 8  |
| 64 | An approach for managing semantic heterogeneity in Systems of Systems Engineering <b>2014</b> ,   |     | 3  |
| 63 | Foundations for Model-Based Engineering of Systems of Systems 2014, 1-19  |     | 12 |
| 62 | Industrial Application of Co-modelling and Co-simulation Technology <b>2014</b> , 223-259   |     |    |
| 61 | 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> , <b>2014</b> , 1-28 | 0.4 | 1  |
| 60 | Discrete-Event Modelling in VDM <b>2014</b> , 61-95   |     |    |
| 59 | Support for Co-modelling and Co-simulation: The Crescendo Tool <b>2014</b> , 97-114   |     | 3  |
| 58 | Contracts in CML. Lecture Notes in Computer Science, <b>2014</b> , 54-73  | 0.9 | 1  |
| 57 | Collaborative Systems of Systems Need Collaborative Design. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 16-23  | 0.9 | 1  |
| 56 | Co-model Structuring and Design Patterns <b>2014</b> , 115-137  |     | O  |
| 55 | Deploying Co-modelling in Commercial Practice <b>2014</b> , 263-271   |     |    |
| 54 | Semantics of Co-simulation <b>2014</b> , 273-292  |     |    |
| 53 | A formal approach to collaborative modelling and co-simulation for embedded systems Mathematical Structures in Computer Science, <b>2013</b> , 23, 726-750  | 0.5 | 12 |
| 52 | Industrial Deployment of Formal Methods: Trends and Challenges <b>2013</b> , 123-143  |     | 5  |

| 51 | COMPASS tool vision for a system of systems Collaborative Development Environment 2012,  |             | 18  |
|----|--|-------------|-----|
| 50 | Features of CML: A formal modelling language for Systems of Systems 2012,  |             | 45  |
| 49 | Extending VDM-RT to enable the formal modelling of System of Systems 2012,   |             | 5   |
| 48 | Combining VDM with Executable Code. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 266-279   | 0.9         | 11  |
| 47 | A Deterministic Interpreter Simulating a Distributed Real Time System Using VDM. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 179-194  | 0.9         | 10  |
| 46 | Design support and tooling for dependable embedded control software <b>2010</b> ,  |             | 6   |
| 45 | The overture initiative integrating tools for VDM. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , <b>2010</b> , 35, 1-6 | 0.4         | 82  |
| 44 | Proving consistency of VDM models using HOL <b>2010</b> ,  |             | 3   |
| 43 | Combinatorial Testing for VDM <b>2010</b> ,  |             | 13  |
| 42 | Collaborative Modelling and Co-simulation in the Development of Dependable Embedded Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 12-26  | 0.9         | 13  |
| 41 | Proof Obligation Generation and Discharging for Recursive Definitions in VDM. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 40-55   | 0.9         | 5   |
| 40 | Practice-oriented courses in formal methods using VDM++. Formal Aspects of Computing, 2009, 21, 245-   | 25 <i>7</i> | 8   |
| 39 | Formal methods. ACM Computing Surveys, 2009, 41, 1-36  | 13.4        | 340 |
| 38 | Industrial Practice in Formal Methods: A Review. Lecture Notes in Computer Science, 2009, 810-813  | 0.9         | 11  |
| 37 | A multidisciplinary engineering summer school in an industrial setting. <i>European Journal of Engineering Education</i> , <b>2009</b> , 34, 511-526   | 1.5         | 17  |
| 36 | Connecting UML and VDM++ with Open Tool Support. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 563-578  | 80.9        | 6   |
| 35 | Modelling Systems: Practical Tools and Techniques in Software Development 2009,  |             | 54  |
| 34 | Vienna Development Method <b>2008</b> , 1  |             | 17  |

| 33 | Incremental Development of a Distributed Real-Time Model of a Cardiac Pacing System Using VDM <b>2008</b> , 181-197                                  |     | 25 |
|----|--|-----|----|
| 32 | Balancing Insight and Effort: The Industrial Uptake of Formal Methods <b>2007</b> , 237-254  |     | 5  |
| 31 | Validation Support for Distributed Real-Time Embedded Systems in VDM++ 2007,   |     | 7  |
| 30 | Triumphs and Challenges for Model-Oriented Formal Methods: The VDM++ Experience (Abstract) <b>2006</b> ,   |     | 6  |
| 29 | Modeling and Validating Distributed Embedded Real-Time Systems with VDM++. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 147-162          | 0.9 | 54 |
| 28 | Using VDMTools to Model and Validate the Cash Dispenser Example. <i>Formal Aspects of Computing</i> , <b>2000</b> , 12, 216-217                      | 1.2 |    |
| 27 | A Lightweight Approach to Formal Methods. Lecture Notes in Computer Science, 1999, 168-183   | 0.9 | 13 |
| 26 | The IFAD VDM Tools. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 326-329   | 0.9 | 2  |
| 25 | PICGAL: Practical use of formal specification to develop a complex critical system. <i>Lecture Notes in Computer Science</i> , <b>1997</b> , 221-236 | 0.9 | 5  |
| 24 | Semantics of under-determined expressions. Formal Aspects of Computing, 1996, 8, 47-66   | 1.2 | 13 |
| 23 | Combining VDM-SL specifications with C++ code. Lecture Notes in Computer Science, <b>1996</b> , 179-194  | 0.9 | 8  |
| 22 | The formal semantics of ISO VDM-SL. Computer Standards and Interfaces, 1995, 17, 585-601   | 3.5 | 12 |
| 21 | Response to The formal specification of safety requirements for storing explosives [Formal Aspects of Computing, <b>1994</b> , 6, 565-568            | 1.2 | 3  |
| 20 | A Formal Semantics of Data Flow Diagrams. Formal Aspects of Computing, 1994, 6, 586-606  | 1.2 | 20 |
| 19 | The IFAD VDM-SL toolbox. ACM SIGPLAN Notices, 1994, 29, 77-80  | 0.2 | 55 |
| 18 | Towards Proof Rules for Looseness in Explicit Definitions from VDM-SL. <i>Workshops in Computing</i> , <b>1994</b> , 118-134                         |     | 1  |
| 17 | Evaluation of underdetermined explicit definitions. Lecture Notes in Computer Science, 1994, 233-250   | 0.9 | 2  |
| 16 | An overview of the ISO/VDM-SL standard. ACM SIGPLAN Notices, 1992, 27, 76-82   | 0.2 | 31 |

| 15 | An executable subset of Meta-IV with loose specification. <i>Lecture Notes in Computer Science</i> , <b>1991</b> , 604-   | -6:1.8 | 16 |
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| 14 | The Elements of a Formal Model77-98   |        |    |
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| 3  | Towards Enabling Overture as a Platform for Formal Notation IDEs. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,187, 14-27                      |        | 3  |
| 2  | The Specification Language Server Protocol: A Proposal for Standardised LSP Extensions. <i>Electronic Proceedings in Theoretical Computer Science, EPTCS</i> ,338, 3-18 |        |    |
| 1  | A Survey of Practical Formal Methods for Security. Formal Aspects of Computing,   | 1.2    | 3  |
|    |   |        |    |