
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Publication: Research - peer-review › Report – Annual report year: 2017


Publication: Research - peer-review › Journal article – Annual report year: 2017

Mendling, Jan; Weber, Ingo; Van Der Aalst, Wil; Brocke, Jan vom; Cabanillas, Cristina; Daniel, Florian; Debois, Soren; Di Ciccio, Claudio; Dumas, Marlon; Dustdar, Schahram; Gai, Avigdor; Garcia-Banuelos, Luciano; Governatori, Guido; Hull, T. Richard; La Rosa, Marcello; Leopold, Henriek; Leymann, Frank; Recker, Jan; Reichert, Manfred; Reijers, Hajo A.; Rinderle-Ma, Stefanie; Rogge-Solti, Andreas; Rosemann, Michael; Schulte, Stefan; Singh, Munindar P.; Slaats, Tijs; Staples, Mark; Weber, Barbara; Weidlich, Matthias; Weske, Mathias; Xu, Xiwei; Zhu, Liming / Blockchains for Business Process Management - Challenges and Opportunities. In: arXiv, 2017.

Publication: Research - peer-review › Journal article – Annual report year: 2017


Publication: Research - peer-review › Journal article – Annual report year: 2017


Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Fu, Shixuan; de Vreede, Gert-Jan; Cheng, Xu; Seeber, Isabella; Maier, Ronald; Weber, Barbara / Convergence of Crowdsourcing Ideas: A Cognitive Load perspective. ICIS 2017 PROCEEDINGS. 2017.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Störrle, Harald / Cost-effective evolution of research prototypes into end-user tools: The MACH case study.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Weber, Barbara; Gulden, Jens; Burattin, Andrea / Designing Visual Decision Making Support with the Help of Eye-tracking.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Burattin, Andrea; Bernstein, Vered; Neurauter, Manuel; Soffer, Pnina; Weber, Barbara / Detection and quantification of flow consistency in business process models.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Heuck, Emil; Hildebrandt, Thomas; Kærulf Lerche, Rasmus; Marquard, Morten; Normann, Håkon; Iven Strømsted, Rasmus; Weber, Barbara / Digitalising the General Data Protection Regulation with Dynamic Condition Response Graphs.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Zarrin, Bahram; Baumeister, Hubert (Main supervisor); Damgaard, Anders (Supervisor) / Domain Specific Language for Modeling Waste Management Systems.
Publication: Research › Ph.D. thesis – Annual report year: 2017

Nyborg, Mads; Probst, Christian W. / Do we educate engineers that can engineer?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Wang, Wei; Indulska, Marta; Sadiq, Shazia; Weber, Barbara / Effect of Linked Rules on Business Process Model Understanding.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Kindler, Ekkart / ePNK Applications and Annotations.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Haxthausen, Anne Elisabeth / Formal Development and Verification of Safe Railway Control Systems.
Publication: Research › Poster – Annual report year: 2017

Vu, Linh Hong; Haxthausen, Anne Elisabeth; Peleska, Jan / Formal modelling and verification of interlocking systems featuring sequential release.
Publication: Research - peer-review › Journal article – Annual report year: 2016
Maran, Thomas; Sachse, Pierre; Martini, Markus; Weber, Barbara; Pinggera, Jakob; Zuggal, Stefan; Furtner, Marco / Lost in Time and Space: States of High Arousal Disrupt Implicit Acquisition of Spatial and Sequential Context Information. In: Frontiers in Human Neuroscience, Vol. 11, 206, 2017. Publication: Research - peer-review › Journal article – Annual report year: 2017

Weber, Barbara; Neurauter, Manuel; Burattin, Andrea; Pinggera, Jakob; Davis, Christopher J. / Measuring and Explaining Cognitive Load During Design Activities: A fine-grained approach. Proceedings of Gmunden Retreat on NeuroIS. 2017. Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Petersen, Bo Søborg; Bindner, Henrik W.; Poulsen, Bjarne; You, Shi / Smart Grid Communication Infrastructure Comparison. Proceedings of 8th IEEE International Conference on Smart Grid Communications. IEEE, 2017. Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Petersen, Bo Søborg; Bindner, Henrik W.; Poulsen, Bjarne; You, Shi / Smart Grid Communication Middleware Comparison. Proceedings of 6th International Conference on Smart Cities and Green ICT Systems. IEEE, 2017. Publication: Research - peer-review › Article in proceedings – Annual report year: 2017


Petersen, Bo Søborg; Bindner, Henrik W.; You, Shi; Poulsen, Bjarne / Smart Grid Serialization Comparison. Computing Conference 2017. 2017. Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Petersen, Bo Søborg; Bindner, Henrik W.; You, Shi; Poulsen, Bjarne / Smart grid serialization comparison: Comparison of serialization for distributed control in the context of the Internet of Things. Computing Conference 2017. IEEE, 2017. p. 1339-1346 08252264. Publication: Research - peer-review › Article in proceedings – Annual report year: 2018


Freytag, Thomas; Allgaier, Philip; Burattin, Andrea; Danek-Bulius, Andreas / WoPeD - A "Proof-of-Concept" Platform for Experimental BPM Research Projects.

Aabrandt, Andreas; Traæholt, Chræst (Supervisor); Hansen, Vagn Lundsgaard (Supervisor); Poulsen, Bjarne (Supervisor) / Algebraic Varieties and System Design.
Technical University of Denmark, Department of Electrical Engineering, 2016. 123 p.

Alshareef, Abdurrahman; Sarjoughian, Hessam S.; Zarrin, Bahram / An approach for activity-based DEVS model specification.

Strübel, Daniel; Plöger, Jennifer; Acretoae, Vlad / Clone Detection for Graph-Based Model Transformation Languages.

Haxthausen, Anne Elisabeth; Nguyen, Hoang Nga; Roggenbach, Markus / Comparing formal verification approaches of interlocking systems.

Macedo, Hugo Daniel dos Santos; Fantechi, Alessandro; Haxthausen, Anne Elisabeth / Compositional Verification of Multi-Station Interlocking Systems.


Haxthausen, Anne Elisabeth (Invited author) / Formal Development and Verification of Safe Railway Control Systems.

Macedo, Hugo Daniel / Gaussian elimination is not optimal, revisited.

Haisjackl, Cornelia; Soffer, Pnina; Lim, Shao Yi; Weber, Barbara / How do humans inspect BPMN models: an exploratory study.
Seeber, Isabella ; Waizenegger, Lena ; Demetz, Lukas ; Merz, Alexander B. ; Vreede, G. J. de ; Maier, Ronald ; Weber, Barbara / IT-Supported Formal Control: How Perceptual (in)Congruence Affects the Convergence of Crowd-Sourced Ideas.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Borries, Oscar; Sørensen, Stig B.; Jørgensen, Erik; Zhou, Min; Andersen, Martin Skovgaard; Sokoler, Leo Emil / Large-scale Optimization of Contoured Beam Reflectors and Reflectarrays.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Acretoaie, Vlad; Störrle, Harald (Supervisor) / Model Manipulation for End-User Modelers.
Kgs. Lyngby : Technical University of Denmark (DTU), 2016. 254 p. (DTU Compute PHD-2016; No. 405).
Publication: Research › Ph.D. thesis – Annual report year: 2016

Haxthausen, Anne Elisabeth; Peleska, Jan / On the Feasibility of a Unified Modelling and Programming Paradigm.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Hagdrup, Morten; Boiroux, Dimitri; Mahmoudi, Zeinab; Madsen, Henrik; Poulsen, Niels Kjølstad; Poulsen, Bjarne; Jørgensen, John Bagterp / On the significance of the noise model for the performance of a linear MPC in closed-loop operation.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Haxthausen, Anne Elisabeth; Østergaard, Peter H. / On the Use of Static Checking in the Verification of Interlocking Systems.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Simonsen, Kent Inge Fagerland; Kristensen, Lars M.; Kindler, Ekkart / Pragmatics annotated coloured petri nets for protocol software generation and verification.
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Fantechi, A. ; Gnesi, S. ; Haxthausen, Anne Elisabeth; van de Pol, J. ; Roveri, M. ; Treharne, H. / SaRDIn - A Safe Reconfigurable Distributed Interlocking.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Fantechi, Alessandro; Gnesi, S. ; Haxthausen, Anne Elisabeth; van de Pol, J. ; Roveri, M. ; Treharne, H. / SaRDIn - A Safe Reconfigurable Distributed Interlocking.
Publication: Research - peer-review › Poster – Annual report year: 2016
Jepsen, Jesper; Kindler, Ekkart / The Event Coordination Notation: Behaviour Modelling Beyond Mickey Mouse.

Zarrin, Bahram; Baumeister, Hubert / Towards Separation of Concerns in Flow-Based Programming.

Acretoaie, Vlad; Störrle, Harald; Strüber, Daniel / Transparent Model Transformation: Turning Your Favourite Model Editor into a Transformation Tool.

Braunstein, Cécile; Peleska, Jan; Schulze, Uwe; Hübner, Felix; Huang, Wen-ling; Haxthausen, Anne Elisabeth; Vu, Linh Hong / A SysML Test Model and Test Suite for the ETCS Ceiling Speed Monitor: Technical report, Work Package 4. 2014. 60 p.

Vu, Linh Hong; Haxthausen, Anne Elisabeth; Peleska, Jan / A Domain-Specific Language for Railway Interlocking Systems.

Clavreul, Julie; Baumeister, Hubert; Christensen, Thomas Højlund; Damgaard, Anders / An environmental assessment system for environmental technologies.


Haxthausen, Anne Elisabeth / An Institution for Imperative RSL Specifications.

Haxthausen, Anne Elisabeth; Peleska, Jan; Pinger, Ralf / Applied Bounded Model Checking for Interlocking System Designs.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Haxthausen, Anne Elisabeth / Automated generation of formal safety conditions from railway interlocking tables.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Braunstein, Cécile; Haxthausen, Anne Elisabeth; Huang, Wen-ling; Hübner, Felix; Peleska, Jan; Schulze, Uwe; Vu, Linh Hong / Complete Model-Based Equivalence Class Testing for the ETCS Ceiling Speed Monitor.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Kindler, Ekkart / Coordinating Interactions: The Event Coordination Notation.
Publication: Research › Report – Annual report year: 2014

Zarrin, Bahram; Baumeister, Hubert / Design of a Domain-Specific Language for Material Flow Analysis using Microsoft DSL tools: An Experience Paper.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Damgaard, Anders; Baumeister, Hubert; Astrup, Thomas Fruergaard; Christensen, Thomas Højlund / EASETECH – A LCA model for assessment of environmental technologies.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Knapp, Alexander; Störrle, Harald / Efficient Representation of Timed UML 2 Interactions.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Peodesen, Anders Bro; Østergaard, Jacob (Main supervisor); Poulsen, Bjørne (Supervisor); Gantenbein, Dieter (Supervisor) / Electric vehicle integration in a real-time market.
Publication: Research › Ph.D. thesis – Annual report year: 2015

Störrle, Harald (Editor); Hebig, Regina (Editor); Knapp, Alexander (Editor) / FMI 2014 - Free Models Initiative : Workshop Proceedings.
Publication: Research › Report – Annual report year: 2014

Gruner, Stefan; Haxthausen, Anne Elisabeth; Maibaum, Tom; Roggenbach, Markus / FM-RAIL-BOK organizers' message.
Publication: Research - peer-review › Preface/postscript – Annual report year: 2014

Vu, Linh Hong; Haxthausen, Anne Elisabeth; Peleska, Jan / Formal Modeling and Verification of Interlocking Systems Featuring Sequential Release.
Simonsen, Kent Inge; Kristensen, Lars Michael; Kindler, Ekkart / Pragmatics Annotated Coloured Petri Nets for Protocol Software Generation and Verification.
Publication: Research › Report – Annual report year: 2014

Carré, Bernard (Editor); Sahroui, Houari (Editor); Störrle, Harald (Editor) / Proceedings of the joint track "Tools", "Demos", and "Posters" of ECOOP, ECSA, and ECMFA, 2013.
Technical University of Denmark (DTU), 2014. 52 p. (DTU Compute-Technical Report-2014; No. 01).
Publication: Research › Report – Annual report year: 2014

Aabrandt, Andreas; Hansen, Vagn Lundsgaard; Poulsen, Bjarne; Traeholt, Chresten / Ranking Entities in Networks via Lefschetz Duality.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Barros, Alistair; Gal, Avigdor; Kindler, Ekkart / Special Issue: Selected papers of BPM 2012 : From the guest editors.
Publication: Research - peer-review › Editorial – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Störrle, Harald; Kucharek, Maciej / The Requirements Editor RED.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Kumar S., A. Ajith; Simonsen, Kent Inge / Towards a model-based development approach for wireless sensor-actuator network protocols.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Maier, Anja; Baltsen, Nick; Christoffersen, Henrik; Störrle, Harald / Towards Diagram Understanding: A Pilot Study Measuring Cognitive Workload Through Eye-Tracking.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Baumeister, Hubert (Editor); Weber, Barbara (Editor) / Agile Processes in Software Engineering and Extreme Programming : 14th International Conference, XP 2013, Vienna, Austria, June 3-7, 2013. Proceedings.
Publication: Research - peer-review › Book – Annual report year: 2013

Haxthausen, Anne Elisabeth; Peleska, Jan; Pinger, Ralf / Applied Bounded Model Checking for Interlocking System Designs.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Fasie, Marieta V.; Haxthausen, Anne Elisabeth; Kiniry, Joseph / A Rigorous Methodology for Analyzing and Designing Plug-ins.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Andersen, Peter Bach; Østergaard, Jacob (Main supervisor); Poulsen, Bjarne (Supervisor); Gantenbein, Dieter (Supervisor) / Intelligent Electric Vehicle Integration - Domain Interfaces and Supporting Informatics. Kgs. Lyngby : Technical University of Denmark (DTU), 2013. 188 p.

Clavreul, Julie; Christensen, Thomas Højlund (Main supervisor); Baumeister, Hubert (Supervisor) / LCA of waste management systems: Development of tools for modeling and uncertainty analysis. Kgs. Lyngby : DTU Environment, 2013. 45 p.


Damgaard, Anders; Clavreul, Julie; Baumeister, Hubert; Christensen, Thomas Højlund / Modelling sensitivity and uncertainty in a LCA model for waste management systems - EASETTECH. Proceedings Sardinia 2013. CISA Publisher, 2013.


Nyborg, Mads; Bashir, Khurram; Maknickaite, Asta / SmartNursing - a mobile application to improve communication in home care. eTELEMED 2013 : The Fifth International Conference on eHealth, Telemedicine, and Social Medicine. IARIA, 2013. p. 265-270.

Battle, Nick; Haxthausen, Anne Elisabeth; Hiroshi, Sako; Jørgensen, Peter; Plat, Nico; Sahara, Shin; Verhoef, Marcel / The Overture Approach to VDM Language Evolution. Proceedings of the 11th Overture Workshop. ed. / Ken Pierce; Stefan Hallerstede. 2013. p. 8-15.