An Integrated Framework to Specify Domain-Specific Modeling Languages
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Blockchains for Business Process Management - Challenges and Opportunities
Publication: Research - peer-review › Journal article – Annual report year: 2018

Clinical Processes - The Killer Application for Constraint-Based Process Interactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Smart grid communication infrastructure comparison-for distributed control of distributed energy resources using internet of things devices
Publication: Research - peer-review › Journal article – Annual report year: 2018

Streaming Process Discovery and Conformance Checking
Publication: Research - peer-review › Encyclopedia chapter – Annual report year: 2018

Time and activity sequence prediction of business process instances
Publication: Research - peer-review › Journal article – Annual report year: 2018

Time Prediction on Multi-perspective Declarative Business Processes
Publication: Research - peer-review › Journal article – Annual report year: 2018

Towards Domain-specific Flow-based Languages
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

A Domain-Specific Language for Generic Interlocking Models and Their Properties
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Framework for Online Conformance Checking
Comparing formal verification approaches of interlocking systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Compositional Verification of Multi-Station Interlocking Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Defining Effectiveness Using Finite Sets A Study on Computability
Publication: Research - peer-review › Conference article – Annual report year: 2016

Formal Development and Verification of Safe Railway Control Systems
Haxthausen, A. E. 2016
Publication: Research - peer-review › Poster – Annual report year: 2016

Gaussian elimination is not optimal, revisited
Publication: Research - peer-review › Journal article – Annual report year: 2016

How do humans inspect BPMN models: an exploratory study
Publication: Research - peer-review › Journal article – Annual report year: 2016

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

Large-scale Optimization of Contoured Beam Reflectors and Reflectarrays
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Model Manipulation for End-User Modelers
Publication: Research › Ph.D. thesis – Annual report year: 2016

On the Feasibility of a Unified Modelling and Programming Paradigm
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

On the impact of size to the understanding of UML diagrams
Publication: Research - peer-review › Journal article – Annual report year: 2016
Behavior Modeling – Foundations and Applications: International Workshops, BM-FA 2009-2014, Revised Selected Papers
Publication: Research - peer-review › Book – Annual report year: 2015

Bx 2015 — Bidirectional Transformations: Proceedings of the 4th International Workshop on Bidirectional Transformations
Publication: Research - peer-review › Book – Annual report year: 2015

Capabilities for modelling of conversion processes in LCA
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Capabilities For Modelling Of Conversion Processes In Life Cycle Assessment
Damgaard, A., Zarrin, B., Tonini, D., Baumeister, H. & Astrup, T. F. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Code Generation from Pragmatics Annotated Coloured Petri Nets
Publication: Research › Ph.D. thesis – Annual report year: 2015

Developing merged CDIO based curricula for diploma (B.Eng.) IT study programs at DTU
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Effective and efficient model clone detection
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Efficient Model Querying with VMQL
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

First International Workshop on Human Factors in Modeling (HuFaMo 2015): Preface
Publication: Research - peer-review › Preface/postscript – Annual report year: 2015

Formal Development and Verification of Railway Control Systems - In the context of ERTMS/ETCS Level 2
Publication: Research › Ph.D. thesis – Annual report year: 2015

Formal Modeling and Verification of Interlocking Systems Featuring Sequential Release
Model Checking and Model-based Testing in the Railway Domain
Publication: Research › Book chapter – Annual report year: 2015

Pragmatics Annotated Coloured Petri Nets for Protocol Software Generation and Verification
Publication: Research › Book chapter – Annual report year: 2015

Publication: Research › Book – Annual report year: 2015

The Event Coordination Notation: Behaviour Modelling Beyond Mickey Mouse
Publication: Research › Book chapter – Annual report year: 2015

Towards Separation of Concerns in Flow-Based Programming
Publication: Research › Article in proceedings – Annual report year: 2015

Transparent Model Transformation: Turning Your Favourite Model Editor into a Transformation Tool
Publication: Research › Article in proceedings – Annual report year: 2015

A SysML Test Model and Test Suite for the ETCS Ceiling Speed Monitor: Technical report, Work Package 4
Publication: Research › Report – Annual report year: 2014

A Domain-Specific Language for Railway Interlocking Systems
Publication: Research › Article in proceedings – Annual report year: 2014

An environmental assessment system for environmental technologies
Clavreul, J., Baumeister, H., Christensen, T. H. & Damgaard, A. 2014 In : Environmental Modelling & Software. 60, p. 18-30
Publication: Research › Journal article – Annual report year: 2014
An Evaluation of Automated Code Generation with the PetriCode Approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

An Index for Software Engineering Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

An Institution for Imperative RSL Specifications
Publication: Research - peer-review › Book chapter – Annual report year: 2014

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

Applied Bounded Model Checking for Interlocking System Designs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

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

Complete Model-Based Equivalence Class Testing for the ETCS Ceiling Speed Monitor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Coordinating Interactions: The Event Coordination Notation
Publication: Research › Report – Annual report year: 2014

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

EASETECH – A LCA model for assessment of environmental technologies
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Efficient Representation of Timed UML 2 Interactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Publication: Research - peer-review › Book – Annual report year: 2013

Applied Bounded Model Checking for Interlocking System Designs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

A Rigorous Methodology for Analyzing and Designing Plug-Ins
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

A simulator for high-level Petri nets: An ePNK application
Kindler, E. & Laganeckas, M. 2013 In : Petri Net Newsletter. 82, p. 3–19
Publication: Research - peer-review › Journal article – Annual report year: 2013

Code Generation for Protocols from CPN models Annotated with Pragmatics
Publication: Research › Report – Annual report year: 2013

Compositional Synthesis of Controllers from Scenario-Based Assume-Guarantee Specifications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Efficient Development and Verification of Safe Railway Control Software
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Food Spoilage and Safety Predictor (FSSP) software
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Formal Development and Verification of Railway Control Systems
Vu Hong, L., Haxthausen, A. E. & Peleska, J. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Formal Development and Verification of Safe Railway Control Systems
Haxthausen, A. E. & Vu Hong, L. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

Formal Model-Based Validation for Tally Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Projects:

**Effective, Co-created and compliant ACM**
Weber, B., Burattin, A. & Abbad Andaloussi, A.
01/09/2017 → 31/08/2020
Project

**COMPUTE Software Group**
Störrle, H., Madsen, J., Erbsøll, B. K. & Kristensen, K.
01/01/2015 → 31/12/2015
Project

**Communication with Models**
Störrle, H. & Davidsen, J.
01/10/2014 → 30/09/2015
Project

**PROActive INtegration of sustainable energy resources enabling active distribution networks**
Petersen, B. S., Poulsen, B., Bindner, H. W. & You, S.
01/01/2014 → 31/12/2017
Project

Activities:

**Formal Methods for Software Development**
Haxthausen, A. E. (Guest lecturer)
11 Sep 2017 → 14 Sep 2017
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

**International Workshop on Business Process Intelligence**
Burattin, A. (Organizer)
10 Sep 2017 → 11 Sep 2017
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**University of Florence**
Haxthausen, A. E. (Visiting researcher)
15 Aug 2017 → 14 Sep 2017
Activity: Visiting an external institution › Visiting another research institution

**Green Light for Smarter Methods in Railway Safety Verification**
Haxthausen, A. E. (Guest lecturer)
31 May 2017
Activity: Talks and presentations › Conference presentations

**International Workshop on Business Process Intelligence**
Burattin, A. (Organizer)
19 Sep 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Heidelberg Laureate Forum**
Macedo, H. D. D. S. (Participant)
18 Sep 2016 → 23 Sep 2016
Activity: Attending an event › Participating in or organising a conference
Formel Modellering og Verifikation af Jernbanekontrolsystemer: Et eksempel fra RobustRailS WP 4.1
Haxthausen, A. E. (Invited speaker)
3 Feb 2016
Activity: Talks and presentations › Conference presentations

International Workshop on Business Process Intelligence
Burattin, A. (Organizer)
31 Aug 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Prizes:

Best Demo Award
Andrea Burattin (Recipient), 21 Sep 2016
Prize: Prizes, scholarships, distinctions

Best Process Mining Dissertation Award
Andrea Burattin (Recipient), 8 Sep 2014
Prize: Prizes, scholarships, distinctions

Press clippings:

Returning to the Rails.: Rail Safety: Back in the Spotlight.
Anne Elisabeth Haxthausen
18/03/2016
1 media contribution
Press / Media

Ekspert om tysk togkollision: "Besynderlig ulykke"
Anne Elisabeth Haxthausen
09/02/2016
1 media contribution
Press / Media

Matematik mindsker risiko for togkollision
Anne Elisabeth Haxthausen
01/12/2015
1 media contribution
Press / Media

Matematisk gennembrud øger tog sikkerheden
Anne Elisabeth Haxthausen
01/09/2015
1 media contribution
Press / Media