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

ePNK Applications and Annotations: A Simulator for YAWL Nets
Publication: Research - peer-review › Book chapter – Annual report year: 2018

Measuring and Explaining Cognitive Load During Design Activities: A fine-grained approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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

The Choice Is Yours: The Role of Cognitive Processes for IT-Supported Idea Selection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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

Toward an Automated Labeling of Event Log Attributes
Publication: Research - peer-review › Article in proceedings – 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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Agile Processes in Software Engineering and Extreme Programming
Publication: Research › Book – Annual report year: 2018

Algorithms and Tools for Petri Nets - Proceedings of the Workshop AWPN 2017
Publication: Research - peer-review › Report – Annual report year: 2017

Beyond Brainstorming: Exploring Convergence in Teams
Publication: Research - peer-review › Journal article – Annual report year: 2017

Cheetah Experimental Platform Web 1.0: Cleaning Pupillary Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

Compositional Model Checking of Interlocking Systems for Lines with Multiple Stations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Compositional Verification of Interlocking Systems for Large Stations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Convergence of Crowdsourcing Ideas: A Cognitive Load perspective
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Convergence on Self-Generated vs. Crowdsourced Ideas in Crisis Response: Comparing Social Exchange Processes and Satisfaction with Process
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Cost-effective evolution of research prototypes into end-user tools: The MACH case study
Publication: Research - peer-review › Journal article – Annual report year: 2015

Designing Visual Decision Making Support with the Help of Eye-tracking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Detection and quantification of flow consistency in business process models
Publication: Research - peer-review › Journal article – Annual report year: 2017

Digitalising the General Data Protection Regulation with Dynamic Condition Response Graphs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Domain Specific Language for Modeling Waste Management Systems
Publication: Research › Ph.D. thesis – Annual report year: 2017

Do we educate engineers that can engineer?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effect of Linked Rules on Business Process Model Understanding
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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

Formal Development and Verification of Safe Railway Control Systems
Haxthausen, A. E. 2017
Formal modelling and verification of interlocking systems featuring sequential release

Lost in Time and Space: States of High Arousal Disrupt Implicit Acquisition of Spatial and Sequential Context Information

Model Checking Geographically Distributed Interlocking Systems Using UMC

Online Conformance Checking for Petri Nets and Event Streams

Smart Grid Communication Comparison: Distributed Control Middleware and Serialization Comparison for the Internet of Things

Visualization of the Evolution of Layout Metrics for Business Process Models

Algebraic Varieties and System Design
On the Feasibility of a Unified Modelling and Programming Paradigm

On the impact of size to the understanding of UML diagrams

On the significance of the noise model for the performance of a linear MPC in closed-loop operation

On the Use of Static Checking in the Verification of Interlocking Systems

Pragmatics annotated coloured petri nets for protocol software generation and verification

SaRDIn - A Safe Reconfigurable Distributed Interlocking

Studying the Creation of Design Artifacts

The impact of working memory and the "process of process modelling" on model quality: Investigating experienced versus inexperienced modellers

The innovation element of the diploma (b.eng.) programs at DTU

VMTL: a language for end-user model transformation
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

Electric vehicle integration in a real-time market
Publication: Research › Ph.D. thesis – Annual report year: 2015

FMI 2014 - Free Models Initiative: Workshop Proceedings
Publication: Research › Report – Annual report year: 2014

FM-RAIL-BOK organizers' message
Publication: Research - peer-review › Preface/postscript – Annual report year: 2014

Formal Modeling and Verification of Interlocking Systems Featuring Sequential Release
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Formal Verification of the Danish Railway Interlocking Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

From Pen-and-Paper Sketches to Prototypes: The Advanced Interaction Design Environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Hypersonic: Model Analysis and Checking in the Cloud
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Hypersonic - Model Analysis as a Service
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Implementing the WebSocket Protocol Based on Formal Modelling and Automated Code Generation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modeling Requirements with RED
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

On the Impact of Diagram Layout: How Are Models Actually Read?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

On the Impact of Layout Quality to Understanding UML Diagrams: Size Matters
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

PetriCode: A Tool for Template-Based Code Generation from CPN Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Pragmatics Annotated Coloured Petri Nets for Protocol Software Generation and Verification
Publication: Research › Report – Annual report year: 2014

Publication: Research › Report – Annual report year: 2014

Ranking Entities in Networks via Lefschetz Duality
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Special issue: Selected papers of BPM 2012: From the guest editors
Publication: Research - peer-review › Editorial – Annual report year: 2014

Testing and Deployment of Software Systems (in practice)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

The Requirements Editor RED
Towards a model-based development approach for wireless sensor-actuator network protocols

Towards Diagram Understanding: A Pilot Study Measuring Cognitive Workload Through Eye-Tracking


Applied Bounded Model Checking for Interlocking System Designs

A Rigorous Methodology for Analyzing and Designing Plug-Ins

A simulator for high-level Petri nets: An ePNK application
Kindler, E. & Laganeckas, M. 2013 In : Petri Net Newsletter. 82, p. 3–19

Code Generation for Protocols from CPN models Annotated with Pragmatics

Compositional Synthesis of Controllers from Scenario-Based Assume-Guarantee Specifications

Efficient Development and Verification of Safe Railway Control Software

Food Spoilage and Safety Predictor (FSSP) software

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

Generating Protocol Software from CPN Models Annotated with Pragmatics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

How Do Developers Use APIs? A Case Study in Concurrency
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Improving modeling with layered UML diagrams
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Improving the Usability of OCL as an Ad-hoc Model Querying Language
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Integrating Intelligent Electric Devices into Distributed Energy Resources in a Cloud-Based Environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Intelligent Electric Vehicle Integration - Domain Interfaces and Supporting Informatics
Publication: Research › Ph.D. thesis – Annual report year: 2013

LCA of waste management systems: Development of tools for modeling and uncertainty analysis
Publication: Research › Ph.D. thesis – Annual report year: 2013

Making sense to modelers: Presenting UML class model differences in prose
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

MOCQL: A Declarative Language for Ad-Hoc Model Querying
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Timing Analysis of Mixed-Criticality Hard Real-Time Applications Implemented on Distributed Partitioned Architectures

An Introduction to Formal Methods for the Development of Safety-critical Applications

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., Erbsell, 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