An Integrated Framework to Specify Domain-Specific Modeling Languages

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

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

Blockchains for Business Process Management - Challenges and Opportunities

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
Publication: Research › Poster – Annual report year: 2017

Formal Modelling and Verification of Interlocking Systems Featuring Sequential Release
Publication: Research - peer-review › Journal article – Annual report year: 2016

Lost in Time and Space: States of High Arousal Disrupt Implicit Acquisition of Spatial and Sequential Context Information
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

Model Checking Geographically Distributed Interlocking Systems Using UMC
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Online Conformance Checking for Petri Nets and Event Streams
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid Communication Infrastructure Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid Communication Middleware Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart grid communication middleware comparison distributed control comparison for the internet of things
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart Grid Serialization Comparison
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Smart grid serialization comparison: Comparision of serialization for distributed control in the context of the Internet of Things
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

The Choice Is Yours: The Role of Cognitive Processes for IT-Supported Idea Selection
Visualization of the Evolution of Layout Metrics for Business Process Models

WoPeD - A "Proof-of-Concept" Platform for Experimental BPM Research Projects

Algebraic Varieties and System Design

An approach for activity-based DEVS model specification

Clone Detection for Graph-Based Model Transformation Languages

Comparing formal verification approaches of interlocking systems

Compositional Verification of Multi-Station Interlocking Systems

Defining Effectiveness Using Finite Sets A Study on Computability

Formal Development and Verification of Safe Railway Control Systems
Haxthausen, A. E. 2016

Gaussian elimination is not optimal, revisited

How do humans inspect BPMN models: an exploratory study
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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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 - peer-review › Article in proceedings – Annual report year: 2015

Publication: Research - peer-review › Book – Annual report year: 2015

Publication: Research - peer-review › Book – Annual report year: 2015

The Event Coordination Notation: Behaviour Modelling Beyond Mickey Mouse
Publication: Research - peer-review › Book chapter – Annual report year: 2015
Hypersonic: Model Analysis and Checking in the Cloud

Hypersonic - Model Analysis as a Service

Implementing the WebSocket Protocol Based on Formal Modelling and Automated Code Generation

Modeling Requirements with RED

On the Impact of Diagram Layout: How Are Models Actually Read?

On the Impact of Layout Quality to Understanding UML Diagrams: Size Matters

PetriCode: A Tool for Template-Based Code Generation from CPN Models

Pragmatics Annotated Coloured Petri Nets for Protocol Software Generation and Verification


Ranking Entities in Networks via Lefschetz Duality
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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Towards a model-based development approach for wireless sensor-actuator network protocols
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

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

Modelling sensitivity and uncertainty in a LCA model for waste management systems - EASETECH
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

PetriCode: A Tool for Template-based Code Generation from CPN Models
Publication: Research › Report – Annual report year: 2013

Querying Business Process Models with VMQL
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Simulation Tool For Energy Consumption and Production: The development of a simulation tool for measuring the impact of a smart grid on a building
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

SmartNursing - a mobile application to improve communication in home care
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

The Overture Approach to VDM Language Evolution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Towards a CPN-Based Modelling Approach for Reconciling Verification and Implementation of Protocol Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research › Report – Annual report year: 2013

Towards an Operationalization of the "Physics of Notations" for the Analysis of Visual Languages
Utilizing a Flexibility Interface for Distributed Energy Resources Through a Cloud-Based Service

CO2NSL (Data logger)
Andersen, S. S. & Gustafsson, F. 2012 Technical University of Denmark (DTU). 96 p.

MQ-2 A Tool for Prolog-based Model Querying

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

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

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

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

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 Jernbanekontrolofsystemer: Et eksempel fra RobustRailS WP 4.1
Haxthausen, A. E. (Invited speaker)
3 Feb 2016
Activity: Talks and presentations › Conference presentations

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