Publications:

**A Holistic Approach for Collaborative Workload Execution in Volunteer Clouds**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Replicated Computations Results (RCR) report for "A holistic approach for collaborative workload execution in volunteer clouds"**
Vandin, A. 2018 In : A C M Transactions on Modeling and Computer Simulation. 28, 2, 3 p., 15
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Secure information release in timed automata**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

**Content dependent information flow control**
Nielson, H. R. & Nielson, F. 1 Feb 2017 In : Journal of Logical and Algebraic Methods in Programming. 87, p. 6-32
Publication: Research - peer-review › Journal article – Annual report year: 2017

**A coordination language for databases**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Asynchronous Distributed Execution of Fixpoint-Based Computational Fields**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Atomistic Galois insertions for flow sensitive integrity**
Nielson, F. & Nielson, H. R. 2017 In : Computer Languages, Systems and Structures. 50, p. 82-107
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Automated specification and verification of Web-based applications**
ter Beek, M. H. & Lluch Lafuente, A. 2017 In : Journal of Logical and Algebraic Methods in Programming. 87, p. 51-51
Publication: Research › Editorial – Annual report year: 2017

**BProVe: A formal verification framework for business process models**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**BProVe: Tool support for business process verification**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Choreographing Cyber-Physical Distributed Control Systems for the Energy Sector**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Preface for the special issue on Interaction and Concurrency Experience 2015
Publication: Research - peer-review › Editorial – Annual report year: 2017

QuickChecking static analysis properties
Midtgaard, J. & Møller, A. 2017 In : Software Testing, Verification and Reliability. 27, 6, 23 p., e1640
Publication: Research - peer-review › Journal article – Annual report year: 2017

Time dependent policy-based access control
Publication: Research - peer-review › Conference article – Annual report year: 2017

An Adaptive Middleware for Improved Computational Performance
Publication: Research › Ph.D. thesis – Annual report year: 2016

Analysis of Security Protocols in Embedded Systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

A Parametric Abstract Domain for Lattice-Valued Regular Expressions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A Process Framework for Designing Software Reference Architectures for Providing Tools as a Service
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Attack tree analysis for insider threats on the IoT using isabelle
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Enforcing Availability in Failure-Aware Communicating Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Fine-grained Information Flow for Concurrent Computation
Publication: Research › Ph.D. thesis – Annual report year: 2016

Formal modelling and analysis of socio-technical systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Future-dependent Flow Policies with Prophetic Variables
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Guaranteeing Privacy-Observing Data Exchange
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Iterated Process Analysis over Lattice-Valued Regular Expressions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Model Based Analysis of Insider Threats
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Modelling and Verifying Communication Failure of Hybrid Systems in HCSP
Publication: Research - peer-review › Journal article – Annual report year: 2017

Preface: Special section on Graph Inspection and Traversal Engineering (GRAPHITE 2014)
Publication: Research › Editorial – Annual report year: 2017

Quantitative Verification and Synthesis of Attack-Defence Scenarios
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Security protocol specification and verification with AnBx
Publication: Research - peer-review › Journal article – Annual report year: 2016

Security Protocols: Specification, Verification, Implementation, and Composition
Publication: Research › Ph.D. thesis – Annual report year: 2016

Statistical Model Checking for Product Lines
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The attack navigator
The Navigation Metaphor in Security Economics

Towards Static Analysis of Policy-Based Self-adaptive Computing Systems

Towards Unifying OpenMP Under the Task-Parallel Paradigm Implementation and Performance of the taskloop Construct

Understanding How Components of Organisations Contribute to Attacks

A calculus for attribute-based communication

A calculus of quality for robustness against unreliable communication

A Fixpoint-Based Calculus for Graph-Shaped Computational Fields

Alice and Bob: Reconciling Formal Models and Implementation

A Probabilistic Analysis Framework for Malicious Insider Threats
Factorization of Behavioral Integrity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Hardware Transactional Memory Optimization Guidelines, Applied to Ordered Maps
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Hoare Logic for Disjunctive Information Flow
Publication: Research - peer-review › Book chapter – Annual report year: 2015

How to Trust the Re-use of Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Improving Energy Saving Techniques by Ambient Intelligence Scheduling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Klaim-DB: A Modeling Language for Distributed Database Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Meta-Logical Reasoning in Higher-Order Logic
Villadsen, J., Schlichtkrull, A. & Hess, A. V. 2015
Publication: Research - peer-review › Poster – Annual report year: 2015

Modelling and Analysing Access Control Policies in XACML 3.0
Publication: Research › Ph.D. thesis – Annual report year: 2015

Modelling and Analysing Socio-Technical Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Modelling Social-Technical Attacks with Timed Automata
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Pareto Efficient Solutions of Attack-Defence Trees
Preface
Lluch Lafuente, A. & Tuosto, E. 2015 In : Service Oriented Computing and Applications. 9, 3-4, p. 211 1 p.
Publication: Research - peer-review › Editorial – Annual report year: 2015

Proceedings 11th International Workshop on Automated Specification and Verification of Web Systems
Publication: Research - peer-review › Book – Annual report year: 2015

Proceedings 8th Interaction and Concurrency Experience
Publication: Research - peer-review › Book – Annual report year: 2015

Protocol-Based Verification of Message-Passing Parallel Programs
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Quantitative Analysis of Probabilistic Models of Software Product Lines with Statistical Model Checking
Publication: Research - peer-review › Conference article – Annual report year: 2015

Reconciling White-Box and Black-Box Perspectives on Behavioral Self-adaptation
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Replica-Based High-Performance Tuple Space Computing
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Replicating Data for Better Performances in X10
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Set-Pi: Set Membership pi-Calculus
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Statistical analysis of probabilistic models of software product lines with quantitative constraints
Publication: Research - peer-review › Conference article – Annual report year: 2015
Can We Efficiently Check Concurrent Programs Under Relaxed Memory Models in Maude?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Code Commentary and Automatic Refactorings using Feedback from Multiple Compilers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Collaborative Compiler Vectorization
Jensen, N. B., Probst, C. W. & Karlsson, S. 2014
Publication: Research › Poster – Annual report year: 2014

Combining Generated Data Models with Formal Invalidation for Insider Threat Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Compiler Feedback using Continuous Dynamic Compilation during Development
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Publication: Research - peer-review › Report chapter – Annual report year: 2014

Denial-of-Service Security Attack in the Continuous-Time World
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

DySectAPI: Scalable Prescriptive Debugging
Publication: Research - peer-review › Poster – Annual report year: 2014

DySectAPI: Scalable Prescriptive Debugging
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

ELB-trees - Efficient Lock-free B+trees
Publication: Research › Poster – Annual report year: 2014

ELB-trees - Efficient Lock-free B+trees
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Exploring adaptive program behavior
Publication: Research - peer-review › Poster – Annual report year: 2014
Exploring Adaptive Program Behavior
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Formal Security Analysis of the MaCAN Protocol.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Foundational aspects of security
Publication: Research › Editorial – Annual report year: 2014

Hardware Realization of an FPGA Processor – Operating System Call Offload and Experiences
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

ICT-powered Health Care Processes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Invalidating Policies using Structural Information
Publication: Research - peer-review › Journal article – Annual report year: 2014

Model-based Abstraction of Data Provenance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modeling Human Behaviour with Higher Order Logic: Insider Threats
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Pareto Efficient Solutions of Attack Trees
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Proceedings 3rd Workshop on GRAPH Inspection and Traversal Engineering (GRAPHITE 2014)
Publication: Research - peer-review › Book – Annual report year: 2014

Proceedings of the 7th Interaction and Concurrency Experience (ICE 2014)
Publication: Research - peer-review › Book – Annual report year: 2014
Broadcast, Denial-of-Service, and Secure Communication


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Deciding bisimilarities on distributions


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Defining Privacy Is Supposed to Be Easy


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Design-Efficiency in Security


Publication: Research › Report – Annual report year: 2013

Detecting and Preventing Beacon Replay Attacks in Receiver-Initiated MAC Protocols for Energy Efficient WSNs


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

ELB-trees an efficient and lock-free B-tree derivative


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

ELB-trees - Efficient Lock-free B+trees


Publication: Research › Poster – Annual report year: 2014

Externalizing Behaviour for Analysing System Models


Publication: Research - peer-review › Journal article – Annual report year: 2014

Foreword: Science of Computer Programming, special section from the Principles and Practice of Programming in Java conference


Publication: Research › Editorial – Annual report year: 2013

Invalidating Policies using Structural Information


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Lazy Mobile Intruders

Model checking conditional CSL for continuous-time Markov chains

On Building Secure Communication Systems

On the relationship between LTL normal forms and Büchi automata

Predictive access control for distributed computation

Probabilistic Analysis of the Quality Calculus

Reachability-based impact as a measure for insiderness

Reachability for Finite-state Process Algebras Using Horn Clauses

Revisiting Weak Simulation for Substochastic Markov Chains

Safety versus Security in the Quality Calculus


Security Games for Cyber-Physical Systems
Spatio temporal media components for neurofeedback
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

The Quest for Minimal Quotients for Probabilistic Automata
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

XACML 3.0 in Answer Set Programming
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Logics and Models for Stochastic Analysis Beyond Markov Chains
Publication: Research › Ph.D. thesis – Annual report year: 2013

Safety Verification for Probabilistic Hybrid Systems
Zhang, L., She, Z., Ratschan, S., Hermanns, H. & Hahn, E. M. 2012 In : European Journal of Control. 18, 6, p. 572-587
Publication: Research - peer-review › Journal article – Annual report year: 2013

Smart Grid Security A Smart Meter-Centric Perspective
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Activities:

CryptoForma Workshop
Almousa, O. (Speaker)
13 Jul 2015
Activity: Talks and presentations › Conference presentations

Adaptivity Framework: libpappadapt
Bonnichsen, L. F. (Speaker)
22 Jan 2014
Activity: Talks and presentations › Conference presentations

Prizes:

Otto Mønsteds Fund: Travel grant
Hugo-Andrés López-Acosta (Recipient), 25 Oct 2015
Prize: Prizes, scholarships, distinctions