Publications:

Architecturally Significant Requirements Identification, Classification and Change Management for Multi-tenant Cloud-Based Systems
Publication: Research - peer-review › Book chapter – Annual report year: 2017

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

Formal Analysis of Graphical Security Models
Publication: Research › Ph.D. thesis – Annual report year: 2017

High Performance with Prescriptive Optimization and Debugging
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modeling and Verification of Insider Threats Using Logical Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2017

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

Formal modelling and analysis of socio-technical systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Guaranteeing Privacy-Observing Data Exchange
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 Socio-Technical Aspects of Organisational Security
Publication: Research › Ph.D. thesis – Annual report year: 2016

Secure Refactoring with Java Information Flow
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The attack navigator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The Navigation Metaphor in Security Economics
Publication: Research - peer-review › Journal article – Annual report year: 2016
Towards Formal Analysis of Insider Threats for Auctions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Transforming Graphical System Models to Graphical Attack Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Understanding How Components of Organisations Contribute to Attacks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

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

Attack Tree Generation by Policy Invalidation
Publication: Research - peer-review › Article in proceedings – 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

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

Semantics, Logics, and Calculi: Essays Dedicated to Hanne Riis Nielson and Flemming Nielson on the Occasion of Their 60th Birthdays
Publication: Research › Book – Annual report year: 2016

Tool-based Risk Assessment of Cloud Infrastructures as Socio-Technical Systems
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Automatic generation of application specific FPGA multicore accelerators
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
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

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

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

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

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

On Building Secure Communication Systems
Publication: Research › Ph.D. thesis – Annual report year: 2014

Reachability-based impact as a measure for insiderness
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Move in the Security Measurement Stalemate: Elo-Style Ratings to Quantify Vulnerability
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Opdagelse og forhindring af insider-trusler
Publication: Research › Book chapter – Annual report year: 2012
Privacy Penetration Testing: How to Establish Trust in Your Cloud Provider
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Adapt or Become Extinct!: The Case for a Unified Framework for Deployment-Time Optimization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A Framework for Constraint-Programming based Configuration
Publication: Research › Ph.D. thesis – Annual report year: 2011

CDIO Projects in DTU’s B.Eng. in IT Study Program
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Hardware Support for Dynamic Languages
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Hardware Support for Dynamic Languages
Publication: Research - peer-review › Poster – Annual report year: 2011

Identifying and Mitigating Insider Threats
Publication: Research - peer-review › Journal article – Annual report year: 2011

Insiders and Insider Threats: An Overview of Definitions and Mitigation Techniques
Publication: Research - peer-review › Journal article – Annual report year: 2011

Modelling Configuration Knowledge in Heterogeneous Product Families
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

The Guided System Development Framework
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Towards a Time-predictable Dual-Issue Microprocessor: The Patmos Approach
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Aspects of Insider Threats
Publication: Research - peer-review › Book chapter – Annual report year: 2010

From Flow Logic to static type systems for coordination languages
Publication: Research - peer-review › Conference article – Annual report year: 2010

Insider Threats in Cyber Security
Publication: Research - peer-review › Book – Annual report year: 2010

Maintaining Arc Consistency in Non-Binary Dynamic CSPs using Simple Tabular Reduction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Protocol Implementation Generator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Security audits of multi-tier virtual infrastructures in public infrastructure clouds
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010
The Risk of Risk Analysis
Publication: Research - peer-review › Book chapter – Annual report year: 2010

Analysing Access Control Specifications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Fluid Information Systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Industrial requirements for interactive product configurators
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

The Risk of Risk Analysis: And its relation to the Economics of Insider Threats
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Towards A Comprehensive Study of Supply Chain Integrity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

An extensible analysable system model
Publication: Research - peer-review › Journal article – Annual report year: 2008

Countering Insider Threats
Publication: Research › Report – Annual report year: 2008

From Flow Logic to Static Type Systems in Coordination Languages
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Java bytecode verification via static single assignment form
Publication: Research - peer-review › Journal article – Annual report year: 2008

Publication: Research › Report – Annual report year: 2008

Static validation of licence conformance policies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A new way of estimating compute-boundedness and its application to dynamic voltage scaling
Publication: Research - peer-review › Journal article – Annual report year: 2007

Automatic Generation of Machine Emulators: Efficient Synthesis of Robust Virtual Machines for Legacy Software Migration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Enhancing Creativity by Test Diversity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

HotpathVM: An Effective JIT for Resource-constrained Devices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Issues in holistic system design
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006
Linguistic Support for Modern Operating Systems - Workshop on Programming Languages and Operating Systems (PLOS 2006)
Publication: Research - peer-review › Book – Annual report year: 2006

Non-Interference and Erasure Policies for Java Card Bytecode.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Program Partitioning using Dynamic Trust Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Sandboxing for myKlaim
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Sandboxing in myKlaim
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Where can an Insider attack?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

A Multilevel Introspective Dynamic Optimization System For Holistic Power-Aware Computing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

A portable virtual machine target for proof-carrying code
Publication: Research - peer-review › Journal article – Annual report year: 2005

Average Case vs. Worst Case-Margins of Safety in System Design
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Integrated Java Bytecode Verification
Publication: Research - peer-review › Journal article – Annual report year: 2005

Power-aware computing systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Secure Dynamic Program Repartitioning
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Structural Encoding of Static Single Assignment Form
Publication: Research - peer-review › Journal article – Annual report year: 2005

Untyped Memory in the Java Virtual Machine
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Modular Control Flow Analysis for Libraries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Projects:

Security in Fog Computing
Project: PhD
Typing for Secure Composition of Distributed Systems  
Project: PhD

Principles for Scalable Many-core Operating Systems  
Project: PhD

Cognitive and Perceptive Cameras - System software and execution platform  
Project: PhD

Cognitive and Perceptive Cameras - Compilation system  
Project: PhD

Stochastic Model Checking of Socio-Technical Models  
Project: PhD

Graphical passwords user authentication  
Project: PhD

Modelling Socio-Technical Aspects of Organizational Security  
Project: PhD

Portable and predictable Performance Heterogeneous Embedded Manycores - Low Level System Stack  
Project: PhD

Security and privacy in Managed Video Systems  
Project: PhD

Technology-supported Risk Estimation by Predictive Assessment of Socio-technical Security  
Project

Portable and Predictable Performance Heterogeneous Embedded Manycores - Upper Level System stack  
Project: PhD

SESAMO: Security and Safety Modelling  
Project: PhD

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Project: PhD

Project: PhD

Resilient Infrastructure and Building Security  
Project: PhD

Conflict Management in Aspect Policies  
Project: PhD

Round-trip Engineering of Service-Oriented Architectures  
Project: PhD
Combined Techniques of Static Analysis and Model Checking
Project: PhD

Static Analysis and Model Checking of Software Systems
Project: PhD

Formal approaches for Aspect-Oriented Systems
Project: PhD

A Framework for Constraint-Programming based Configuration
Project: PhD

Verification of Stochastic Process Calculi
Project: PhD

Aspects for security policies
Project: PhD

Tools for model-based software descriptions
Project: PhD

Systemarkitekturer baseret på Network-on-Chip
Project: PhD