Flemming Nielson - DTU Orbit (04/02/2018)

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Department of Applied Mathematics and Computer Science - Professor
Formal Methods

Publications:

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

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

Effect-driven QuickChecking of compilers
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

Information Flow for Timed Automata
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Model checking exact cost for attack scenarios
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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

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
Disjunctive Information Flow for Communicating Processes

Enforcing Availability in Failure-Aware Communicating Systems

Fine-grained Information Flow for Concurrent Computation

Future-dependent Flow Policies with Prophetic Variables

Iterated Process Analysis over Lattice-Valued Regular Expressions

Modelling and Verifying Communication Failure of Hybrid Systems in HCSP

Quantitative Verification and Synthesis of Attack-Defence Scenarios

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

A calculus of quality for robustness against unreliable communication

Availability by Design: A Complementary Approach to Denial-of-Service

Discretionary Information Flow Control for Interaction-Oriented Specifications
Factorization of Behavioral Integrity

Hoare Logic for Disjunctive Information Flow

How to Trust the Re-use of Data

Klaim-DB: A Modeling Language for Distributed Database Applications

Modelling and Analysing Access Control Policies in XACML 3.0

Modelling and Analysing Socio-Technical Systems

Pareto Efficient Solutions of Attack-Defence Trees

Set-Pi: Set Membership pi-Calculus

Stochastic Model Checking of the Stochastic Quality Calculus

Automated Generation of Attack Trees
Availability by Design
Publication: Research - peer-review › Article in proceedings – 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

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

ICT-powered Health Care Processes
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Quantitative modelling and analysis of a Chinese smart grid: a stochastic model checking case study
Publication: Research - peer-review › Journal article – Annual report year: 2014

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Uniform Protection for Multi-exposed Targets
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Verification of Stateful Protocols - Set-Based Abstractions in the Applied Pi-Calculus
XACML 3.0 in Answer Set Programming
Publication: Research › Article in proceedings – Annual report year: 2013

A Succinct Approach to Static Analysis and Model Checking
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Belief Bisimulation for Hidden Markov Models Logical Characterisation and Decision Algorithm
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

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Publication: Research - peer-review › Journal article – Annual report year: 2012

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2012
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

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

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Static Analysis of IMC
Skrypnyuk, N., Nielsen, F. & Pilegaard, H. 2012 In : Journal of Logic and Algebraic Programming. 81, 4, p. 522-540
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**Analysing Protocol Stacks for Services**  
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**A Stochastic Broadcast Pi-Calculus**  
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Yuksel, E., Nielson, H. R. & Nielson, F. 2010
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Pathway analysis of IMC
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Publication: Research › Conference abstract in proceedings – Annual report year: 2009

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Publication: Education - peer-review › Book chapter – Annual report year: 2009

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Publication: Research › Ph.D. thesis – Annual report year: 2008

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Language-based Security for VHDL
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Active Evaluation Contexts for Reaction Semantics
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Where can an Insider attack?

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Heuristics for Enforcing Security Constraints

Information Flow Analysis for VHDL

On evaluating the performance of security protocols

Performance Evaluation of Security Protocols

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Static analysis of a Model of the LDL degradation pathway

Static Validation of Security Protocols

A Calculus for Control Flow Analysis of Security Protocols
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**Behaviour Analysis for Validating Communication Patterns**  
Publication: Research - peer-review › Journal article – Annual report year: 1998

**Control Flow Analysis for the Pi-calculus**  
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Projects:

Abstract Interpretation for Secure Information Flow
Vasilikos, P., Nielsen, H. R. & Nielsen, F.
01/09/2016 → 31/08/2019
Project: PhD

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Aslanyan, Z., Nielsen, F., Probst, C. W., Lluch Lafuente, A., Hansen, R. R. & Legay, A.
01/07/2013 → 23/11/2016
Project: PhD

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Li, X., Nielsen, F., Nielsen, H. R., Probst, C. W., Aceto, L. & Mantal, H.
01/10/2012 → 21/01/2016
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Bruni, A., Nielsen, F., Nielsen, H. R., Probst, C. W., Kremer, S. & Maffeis, S.
01/10/2012 → 31/03/2016
Project: PhD

Cyber-Physical Systems secure communication protocols
Vigo, R., Nielsen, F., Nielsen, H. R., Lluch Lafuente, A., Victor, B. & Viganò, L.
01/12/2011 → 04/03/2015
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Conflict Management in Aspect Policies
Ramli, C. D. P. K., Nielsen, H. R., Nielsen, F., Probst, C. W., Kammüller, F. & Karjoth, G.
01/09/2010 → 21/09/2015
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Carvalho Quaresma, J. N., Probst, C. W., Nielsen, F., Dragoni, N., Gollmann, D. & Kammüller, F.
01/09/2010 → 22/11/2013
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Static Analysis for Model Checking
Terepeta, M. T., Nielsen, H. R., Nielsen, F., Mödersheim, S. A., Cortesi, A. & Jensen, T.
01/08/2010 → 25/10/2013
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Logics and models for stochastic analysis of information systems
Zeng, K., Nielsen, B. F., Nielsen, F., Zhang, L., Buchholz, P. & Hillston, J.
01/11/2009 → 07/03/2013
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Zhang, F., Nielsen, F., Nielsen, H. R., Probst, C. W., Dam, M. & Huth, M.
01/09/2009 → 22/11/2012
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Filipiuk, P., Nielsen, H. R., Nielsen, F., Probst, C. W., Schmidt, D. A. & Seidl, H.
01/08/2009 → 25/10/2012
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01/06/2009 → 28/09/2012
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Yuksel, E., Nielsen, H. R., Nielsen, F., Madsen, J., Gilmore, S. & Martinelli, F.
01/09/2007 → 30/03/2011
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Yang, F., Nielsen, F., Nielsen, H. R., Probst, C. W., De Nicola, R. & Sühdolt, M.
01/06/2007 → 08/12/2010
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Zhang, Y., Nielsen, F., Fischer, P., Hankin, C. & Jensen, T.
15/09/2005 → 25/03/2009
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Nielsen, C. R., Nielsen, H. R., Nielsen, F., Fischer, P., Mycroft, A. & Viganò, L.
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Hansen, S. M., Nielsen, H. R. & Nielsen, F.
01/01/2005 → 26/06/2005
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Pilegaard, H., Nielsen, F., Nielsen, H. R., Hillston, J. & Ingolfsdottir, A.
01/10/2003 → 13/12/2007
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Tolstrup, T. K., Nielsen, H. R., Nielsen, F., Madsen, J., Banerjee, A. & Sabelfeld, A.
01/04/2003 → 18/04/2007
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