Technical reports from the Department of Information Technology

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[2018-008] Owe Axelsson, Maya Neytcheva and Anders Ström. *An Efficient Preconditioning Method for State Box-Constrained Optimal Control Problems*. March 2018. This is a major revision of Technical Report 2017-004. In the new version all the numerical experiments have been rerun with new much more efficient dynamic stopping criteria.


Volkan Cambazoglu, Ramūnas Gutkovas, Johannes Åman Pohjola and Björn Victor. Modelling and Analysing a WSN Secure Aggregation Protocol: A Comparison of Languages and Tool Support. November 2015. Updated 2015-12-02: The results in subsection 4.1.3 are updated because we realised that Pwb can evaluate the SHIA model faster for network sizes of 2 and 4, and also can handle network size of 8.


Per Normann and Johan Överstedt. Deterministic Parallel Graph Coloring with Symmetry Breaking. October 2015.


Adriaan Larmuseau, Marco Patrignani and Dave Clarke. A Secure Compiler for ML Modules - Extended Version. September 2015. This technical report is an updated version of TR 2015-017 that serves as the companion report to an APLAS 2015 paper of the same title.


Adriaan Larmuseau and Dave Clarke. Modelling an Assembly Attacker by Reflection. August 2015. This technical report is an extended version of a paper titled: A High-Level Model for an Assembly Language Attacker by means of Reflection that is to appear at SETTA 2015.


[2013-026] Sofia Cassel, Falk Howar, Bengt Jonsson, Maik Merten and Bernhard Steffen. *A Succinct Canonical Register Automaton Model.* December 2013. This is an extended version of a paper published in ATVA 2011. The extended version has been accepted for publication in JLAP.


Per Pettersson, Gianluca Iaccarino and Jan Nordström. A Stochastic Galerkin Method for the Euler Equations with Roe Variable Transformation. November 2012. This is a complete rewrite of report nr 2012-021 with new results. A more general framework for the representation of uncertainty is used. All figures have been replaced and more numerical results have been added (methods of manufactured solutions, convergence in space and the stochastic dimension for subsonic and supersonic flow).


Jens Berg and Jan Nordström. Superconvergent Functional Output for Time-Dependent Problems using Finite Differences on Summation-By-Parts Form. February 2012.


[2010-021] Michael Thuné and Anna Eckerdal. *Students’ Conceptions of Computer Programming*. September 2010. The phenomenographic outcome space presented in this report has previously been published as part of a journal article (Thuné and Eckerdal 2009). Due to space limitations in the journal publication, we have found it appropriate to make available a more comprehensive description of the outcome space, in the present technical report.


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