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Formal Methods

Publications:

**Formalizing and proving a typing result for security protocols in Isabelle/HOL**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**AIF-ω: Set-Based Protocol Abstraction with Countable Families**
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

**Alice and Bob: Reconciling Formal Models and Implementation**
Publication: Research - peer-review › Book chapter – Annual report year: 2015

**Set-Pl: Set Membership pi-Calculus**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

**Typing and compositionality for security protocols: A generalization to the geometric fragment**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

**Typing and Compositionality for Security Protocols: A Generalization to the Geometric Fragment (Extended Version)**
Publication: Research › Report – Annual report year: 2015

**A Sound Abstraction of the Parsing Problem**
**ASLa++ — A Formal Security Specification Language for Distributed Systems**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

**Constraint Differentiation: Search-Space Reduction for the Constraint-Based Analysis of Security Protocols**
Publication: Research - peer-review › Journal article – Annual report year: 2010

**Projects:**

**Formal methods for Secure Trust Infrastructures**
Birkedal, R., Mödersheim, S. A. & Lluch Lafuente, A.
01/12/2016 → 30/11/2019
Project: PhD

**LIGHTtest foundation**
Bjerregaard, M. O., Mödersheim, S. A. & Lluch Lafuente, A.
01/09/2016 → 06/09/2016
Project: PhD

**Typing for Secure Composition of Distributed Systems**
Laursen, K., Mödersheim, S. A. & Probst, C. W.
01/06/2016 → 01/10/2019
Project: PhD

**Composec: Secure Composition of Distributed Systems**
Hess, A. V., Mödersheim, S. A. & Villadsen, J.
01/10/2015 → 30/09/2018
Project: PhD

**Trusted Cryptography**
Kölbl, S., Rechberger, C., Knudsen, L. R., Mödersheim, S. A., Johansson, T. & Rijmen, V.
01/12/2013 → 12/12/2016
Project: PhD

**Modeling and Verifying eID Protocols (Future ID)**
15/12/2012 → 24/02/2016
Project: PhD

**Static Analysis for Model Checking**
01/08/2010 → 25/10/2013
Project: PhD

**Attacker Models for Ubiquitous Computing**
Papini, D., Sharp, R., Jensen, C. D., Mödersheim, S. A. & Skou, A. J.
01/10/2009 → 24/05/2013
Project: PhD