

Program Committee

- Vincent Rijmen, TUG (chair)
- Phong Nguyen, ENS
- Christof Paar, RUB
- Bart Preneel, KULeuven
- Matt Robshaw, RHUL

This workshop is organized by the European Network of Excellence in Cryptology (ECRYPT) in Graz, Austria.

www.iaik.tugraz.at/research/krypto

Workshop on RFID and Light-Weight Crypto

Program, Wednesday July 13th

19.00 - Welcome reception at the Murinsel

Program, Thursday July 14th

9.00 - 9.30: Registration, Welcome

9.30 - 10.30: Introductory talk (Chair: Vincent Rijmen)

Johannes Wolkerstorfer

10.30 - 11.00: Break

11.00 - 12.30: Protocols (1) (Chair: Tanja Lange)

A scalable, delegatable, pseudonym protocol enabling ownership transfer of RFID tags by

David Molnar, Andrea Soppera, David Wagner

Mutual authentication protocol for low-cost RFID by Jeongkyu Yang, Jaemin Park, Hyunrok Lee, Kui Ren, Kwangjo Kim

Symmetric authentication for RFID systems in practice by

Sandra Dominikus, Elisabeth Oswald, Martin Feldhofer

12.30 - 14.00: Lunch

14.00 - 15.00: Invited talk (Chair: Bart Preneel)

RFID: The Problems of Cloning and Counterfeiting by Ari Juels

15.00 - 15.30: Break

15.30 - 17.00: Hardware (Chair: Markus Volkmer)

8-bit microcontroller system with area efficient AES coprocessor for transponder applications by

Mark Jung, Horst Fiedler, Reneé Lerch

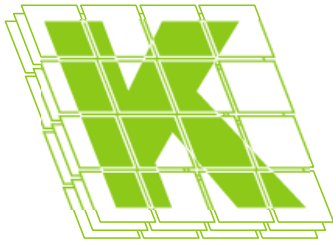
Electromagnetic side channel analysis of a contactless smart card: first results by Dario Carluccio, Kerstin Lemke, Christof Paar

Design of instruction set extensions and functional units for energy-efficient public-key cryptography by

Johann Großschädl, Stefan Tillich

18.15 - 19.15: City tour

19.30 - ... : Conference dinner at Mayers



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Workshop on RFID and Light-Weight Crypto

Program, Friday July 15th

9.00 - 10.00: Invited talk (Chair: Matt Robshaw)
Protocol Design: Coming Down from the Cloud by Dieter Gollmann

10.00 - 10.30: Break

10.30 - 11.30: Curves (Chair: Francois-Xavier Standaert)
Arithmetic on binary genus 2 curves suitable for small devices
by Tanja Lange

Is Elliptic-Curve Cryptography Suitable to Secure RFID
Tags?
by Johannes Wolkerstorfer

11.30 - 12.30: Protocols (2) (Chair: Andrea Soppera)
Noisy cryptographic protocols for low cost RFID tags
by Hervé Chabanne, Guillaume Fumaroli

Lightweight key exchange and stream cipher based solely on
tree parity machines by Markus Volkmer, Sebastian Wallner

12.30 - 14.00: Lunch

14.00 - 15.00: Invited talk (Chair: Vincent Rijmen)
Scalability Issues in RFID Systems by Gildas Avoine

15.00 - 15.30: Break

15.30 - 17.00: Ciphers (Chair: Kerstin Lemke)
Grain - a stream cipher for constrained environments by
Martin Hell, Thomas Johansson, Willi Meier

Small scale variants of the secure hash standard by Marco
Macchetti, Philippe Rivard

SEA, a scalable encryption algorithm for small embedded
applications by Francois-Xavier Standaert, Gilles Piret, Neil
Gershenfeld, Jean-Jacques Quisquater