Cyber Security - Publications - DTU Orbit (16/03/2018)

Improved meet-in-the-middle attacks on reduced-round Piccolo
Publication: Research - peer-review » Journal article – Annual report year: 2018

A bayesian inference-based detection mechanism to defend medical smartphone networks against insider attacks
Meng, W., Li, W., Xiang, Y. & Choo, K. K. R. 2017 In : Journal of Network and Computer Applications. 78, p. 162-169
Publication: Research - peer-review » Journal article – Annual report year: 2017

A brief comparison of Simon and Simeck
Kölbl, S. & Roy, A. 2017 In : Lecture Notes in Computer Science. 10098, p. 69-88
Publication: Research - peer-review » Conference article – Annual report year: 2017

A New Structural-Differential Property of 5-Round AES
Publication: Research - peer-review » Conference article – Annual report year: 2018

A Pilot Study of Multiple Password Interference Between Text and Map-Based Passwords
Publication: Research - peer-review » Article in proceedings – Annual report year: 2017

A Privacy-Preserving Framework for Collaborative Intrusion Detection Networks Through Fog Computing
Publication: Research - peer-review » Article in proceedings – Annual report year: 2017

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

Authentication for E-Government in Developing Countries - With special focus on the North Africa Countries
Publication: Research » Ph.D. thesis – Annual report year: 2017

Cache timing attacks on recent microarchitectures
Publication: Research - peer-review » Article in proceedings – Annual report year: 2017

Design and analysis of cryptographic algorithms
Publication: Research » Ph.D. thesis – Annual report year: 2017

Detecting Malicious Nodes in Medical Smartphone Networks Through Euclidean Distance-Based Behavioral Profiling
Publication: Research - peer-review » Book chapter – Annual report year: 2017

Developing advanced fingerprint attacks on challenge-based collaborative intrusion detection networks
SOOA: Exploring Special On-Off Attacks on Challenge-Based Collaborative Intrusion Detection Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards effective and robust list-based packet filter for signature-based network intrusion detection: an engineering approach
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Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards enhancing click-draw based graphical passwords using multi-touch behaviours on smartphones
Publication: Research - peer-review › Journal article – Annual report year: 2017

Towards Statistical Trust Computation for Medical Smartphone Networks Based on Behavioral Profiling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Adaptable AES implementation with power-gating support
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A MAC Mode for Lightweight Block Ciphers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Atomic-AES: A compact implementation of the AES encryption/decryption core
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Building indifferentiable compression functions from the PGV compression functions
Publication: Research - peer-review › Journal article – Annual report year: 2016

Conditional differential cryptanalysis of 105 round Grain v1
Banik, S. 2016 In : Cryptography and Communications. 8, 1, p. 113-137
Publication: Research - peer-review › Journal article – Annual report year: 2016

Cryptanalysis of Selected Block Ciphers
Publication: Research › Ph.D. thesis – Annual report year: 2016

Design and Analysis of Symmetric Primitives
Publication: Research › Ph.D. thesis – Annual report year: 2016
Feasibility study of context-awareness device Comfort calculation methods and their application to comfort-based access control
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Identity management for e-government Libya as a case study
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Introducing E-Government in Developing Countries Analysis of Egyptian e-Government Services
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

MiMC: Efficient encryption and cryptographic hashing with minimal multiplicative complexity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

PMFA: Toward Passive Message Fingerprint Attacks on Challenge-Based Collaborative Intrusion Detection Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Polytopic Cryptanalysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Round Gating for Low Energy Block Ciphers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

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

Smartphone User Authentication Using Touch Dynamics in the Big Data Era: Challenges and Opportunities
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Towards Formal Analysis of Insider Threats for Auctions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Towards Practical Whitebox Cryptography: Optimizing Efficiency and Space Hardness
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Analyzing Permutations for AES-like Ciphers: Understanding ShiftRows
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Ciphers for MPC and FHE
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Comb to Pipeline: Fast Software Encryption Revisited
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Fast evaluation of polynomials over binary finite fields and application to side-channel countermeasures
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How Not to Combine RC4 States
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Improved Linear Cryptanalysis of Reduced-Round SIMON-32 and SIMON-48
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Linear Distinguishers in the Key-less Setting: Application to PRESENT
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Key Recovery Attacks on Recent Authenticated Ciphers

Lightweight cryptography for constrained devices

Multidimensional zero-correlation attacks on lightweight block cipher HIGHT: Improved cryptanalysis of an ISO standard

On the Efficacy of Solving LWE by Reduction to Unique-SVP

On the (In)Equivalence of Impossible Differential and Zero-Correlation Distinguishers for Feistel- and Skipjack-Type Ciphers

On the Wrong Key Randomisation and Key Equivalence Hypotheses in Matsui’s Algorithm 2

Rotational Rebound Attacks on Reduced Skein
**Slender-Set Differential Cryptanalysis**
Borghoff, J., Knudsen, L. R., Leander, G. & Thomsen, S. S. 2013 In : Journal of Cryptology. 26, 1, p. 11-38

**SPONGENT: The Design Space of Lightweight Cryptographic Hashing**

**The range of attraction for light traps catching Culicoides biting midges**

**The range of attraction for light traps catching Culicoides biting midges (Diptera: Ceratopogonidae)**

**Cryptanalysis of Some Lightweight Symmetric Ciphers**

**Efficient reconfigurable hardware architecture for accurately computing success probability and data complexity of linear attacks**
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