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Shiho Moriai (Ed.)

Fast Software Encryption

20th International Workshop, FSE 2013
Singapore, March 11–13, 2013
Revised Selected Papers

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Preface

The 20th International Workshop on Fast Software Encryption (FSE 2013) was held at Novotel Singapore Clarke Quay, Singapore, during March 11–13, 2013. The workshop was sponsored by the International Association for Cryptologic Research. FSE 2013 received 97 submissions from 24 countries. The 21 members of the Program Committee were assisted by more than 90 external reviewers. In total, they delivered 337 reviews. Each submission was reviewed by at least three Program Committee members. Submissions by Program Committee members received at least five reviews. The review process was double-blind, and conflicts of interest were carefully handled. The review process was handled through an online review system that supported discussions among Program Committee members. Over the entire review period, more than 200 messages were exchanged between Program Committee members. Eventually, the Program Committee selected 30 papers (a 31 % acceptance rate) for publication in the proceedings.

The program also included two invited talks, by Serge Vaudenay from Ecole Polytechnique Federale de Lausanne, Switzerland, and by Daniel Bernstein from University of Illinois at Chicago, USA, and Technische Universiteit Eindhoven, The Netherlands.

The Program Committee also identified the best submissions from FSE for their scientific quality, their originality, and their clarity. The FSE 2013 Best Paper Award went to Gordon Procter and Carlos Cid from Royal Holloway, University of London, United Kingdom. Their paper, “On Weak Keys and Forgery Attacks against Polynomial-based MAC Schemes”, identifies some properties of hash functions based on polynomial evaluation that arise from the underlying algebraic structure.

Many people contributed to FSE 2013. We thank the authors for contributing their excellent research. We thank the Program Committee members, and their external reviewers, for making a significant effort to select for the program. We particularly thank Dmitry Khovratovich, Subhamoy Maitra, Florian Mendel, and Christian Rechberger for shepherding papers. Finally, we thank Jian Guo and Thomas Peyrin, the general co-chairs, and the FSE Steering Committee members, who worked so hard for the event and helped me a lot.

FSE 2013 collected a diversity of recent results in symmetric cryptography, from theory to practical aspects, from design to cryptanalysis. We feel privileged for the opportunity to develop the FSE 2013 program. We hope that the papers in these proceedings will continue to inspire, guide, and clarify your academic and professional endeavors.

FSE 2013

Workshop on Fast Software Encryption
Singapore, 11–13 March, 2013

Sponsored by the International Association
for Cryptologic Research

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Contents

Block Ciphers

- Complementing Feistel Ciphers 3
Alex Biryukov and Ivica Nikolić
- On the Wrong Key Randomisation and Key Equivalence Hypotheses
in Matsui's Algorithm 2 19
Andrey Bogdanov and Elmar Tischhauser
- Cryptanalysis of WIDEA 39
Gaëtan Leurent

Invited Talk

- Towards Secure Distance Bounding 55
Ioana Boureanu, Aikaterini Mitrokotsa, and Serge Vaudenay

Lightweight Block Ciphers

- Reflection Cryptanalysis of PRINCE-Like Ciphers 71
*Hadi Soleimany, Céline Blondeau, Xiaoli Yu, Wenling Wu, Kaisa Nyberg,
Huiling Zhang, Lei Zhang, and Yanfeng Wang*
- Security Analysis of PRINCE 92
Jérémy Jean, Ivica Nikolić, Thomas Peyrin, Lei Wang, and Shuang Wu
- Cryptanalysis of Round-Reduced LED 112
Ivica Nikolić, Lei Wang, and Shuang Wu

Tweakable Block Ciphers

- Tweakable Blockciphers with Asymptotically Optimal Security 133
Rodolphe Lampe and Yannick Seurin

Stream Ciphers I

- Smashing WEP in a Passive Attack 155
Pouyan Sepehrdad, Petr Sušil, Serge Vaudenay, and Martin Vuagnoux
- Full Plaintext Recovery Attack on Broadcast RC4 179
Takanori Isobe, Toshihiro Ohigashi, Yuhei Watanabe, and Masakatu Morii

Hash Functions

Time-Memory Trade-Offs for Near-Collisions 205
Gaëtan Leurent

Collision Attacks on Up to 5 Rounds of SHA-3 Using Generalized
 Internal Differentials 219
Itai Dinur, Orr Dunkelman, and Adi Shamir

Rotational Cryptanalysis of Round-Reduced KECCAK 241
Paweł Morawiecki, Josef Pieprzyk, and Marian Srebrny

Partial-Collision Attack on the Round-Reduced Compression Function
 of Skein-256 263
Hongbo Yu, Jiazhe Chen, and Xiaoyun Wang

Message Authentication Codes

On Weak Keys and Forgery Attacks Against Polynomial-Based
 MAC Schemes 287
Gordon Procter and Carlos Cid

Secure Message Authentication Against Related-Key Attack 305
Rishiraj Bhattacharyya and Arnab Roy

Provable Security

Attacks and Security Proofs of EAX-Prime 327
Kazuhiko Minematsu, Stefan Lucks, Hiraku Morita, and Tetsu Iwata

Towards Understanding the Known-Key Security of Block Ciphers 348
Elena Andreeva, Andrey Bogdanov, and Bart Mennink

On Symmetric Encryption with Distinguishable Decryption Failures 367
*Alexandra Boldyreva, Jean Paul Degabriele, Kenneth G. Paterson,
 and Martijn Stam*

Implementation Aspects

Minimalism of Software Implementation 393
Mitsuru Matsui and Yumiko Murakami

Higher-Order Side Channel Security and Mask Refreshing 410
*Jean-Sébastien Coron, Emmanuel Prouff, Matthieu Rivain,
 and Thomas Roche*

Masking Tables—An Underestimated Security Risk 425
Michael Tunstall, Carolyn Whitnall, and Elisabeth Oswald

Lightweight Authenticated Encryption

ALE: AES-Based Lightweight Authenticated Encryption. 447
Andrey Bogdanov, Florian Mendel, Francesco Regazzoni, Vincent Rijmen, and Elmar Tischhauser

Related-Key Attacks Against Full Hummingbird-2 467
Markku-Juhani O. Saarinen

Stream Ciphers II

A Low Data Complexity Attack on the GMR-2 Cipher Used
in the Satellite Phones. 485
Ruilin Li, Heng Li, Chao Li, and Bing Sun

Improving Key Recovery to 784 and 799 Rounds of Trivium
Using Optimized Cube Attacks. 502
Pierre-Alain Fouque and Thomas Vannet

Near Collision Attack on the Grain v1 Stream Cipher. 518
Bin Zhang, Zhenqi Li, Dengguo Feng, and Dongdai Lin

Automated Cryptanalysis

Exhausting Demirci-Selçuk Meet-in-the-Middle Attacks Against
Reduced-Round AES. 541
Patrick Derbez and Pierre-Alain Fouque

A Framework for Automated Independent-Biclique Cryptanalysis 561
Farzaneh Abed, Christian Forler, Eik List, Stefan Lucks, and Jakob Wenzel

Boolean Functions

A New Criterion for Avoiding the Propagation of Linear Relations
Through an Sbox 585
Christina Boura and Anne Canteaut

Author Index 605