Program

Sunday, February 7, 2010

18:30–20:00 Registration 19:00–20:00 Welcome Reception

Monday, February 8, 2010

9:00 - 9:30	Registration (Coffee & Juice)
9:30 - 9:40	Welcome Remarks

Session 1: Stream Ciphers and Block Ciphers (Chair: Jin Hong)

9:40 - 10:05	Cryptanalysis of the DECT Standard Cipher
	Karsten Nohl, Erik Tews, and Ralf-Philipp Weinmann
10:05-10:30	Improving the Generalized Feistel
	Tomoyasu Suzaki and Kazuhiko Minematsu
10:30-10:55	Nonlinear Equivalence of Stream Ciphers
	Sondre Rønjom and Carlos Cid

10:55-11:20 Coffee Break

Invited Talk I

(Chair: Seokhie Hong)

11:20–12:10 The Survey of Cryptanalysis on Hash Functions $Xiaoyun\ Wang$

12:10-13:50 Lunch

- Session 2: RFID and Implementations (Chair: Carlos Cid)
- 13:50–14:15 Lightweight Privacy Preserving Authentication for RFID Based on a Stream Cipher Olivier Billet, Jonathan Etrog, and Henri Gilbert
 14:15–14:40 Fast Software AES Encryption Dag Arne Osvik, Joppe W. Bos, Deian Stefan, and David Canright

14:40-15:05 Coffee Break

Session 3: Hash Functions I

(Chair: Jongsung Kim)

- 15:05–15:30 Attacking the Knudsen-Preneel Compression Functions Onur Özen, Thomas Shrimpton, and Martijn Stam
 15:30–15:55 Finding Preimages of Tiger Up to 23 Steps
- Lei Wang and Yu Sasaki
- 15:55–16:20 Cryptanalysis of ESSENCE María Naya-Plasencia, Andrea Röck, Jean-Philippe Aumasson, Yann Laigle-Chapuy, Gaëtan Leurent, Willi Meier, and Thomas Peyrin

17:00–18:30 Social Event (Nanta)

Tuesday, February 9, 2010

9:00–9:30 Registration (Coffee & Juice)

Session 4: Theory

(Chair: Thomas Shrimpton)

9:30–9:55 Domain Extension for Enhanced Target Collision-Resistant Hash Functions Ilya Mironov

9:55–10:20 Security Analysis of the Mode of JH Hash Function Rishiraj Bhattacharyya, Avradip Mandal, and Mridul Nandi
10:20–10:45 Enhanced Security Notions for Dedicated-Key Hash Functions: Definitions and Relationships

Mohammad Reza Reyhanitabar, Willy Susilo, and Yi Mu

10:45–11:10 **Coffee Break**

Session 5: Message Authentication Codes (Chair: Bart Preneel)

- 11:10–11:35 A Unified Method for Improving PRF Bounds for a Class of Blockcipher based MACs *Mridul Nandi*
- 11:35–12:00 How to Thwart Birthday Attacks against MACs via Small Randomness Kazuhiko Minematsu
- 12:00–12:25 Constructing Rate-1 MACs from Related-Key Unpredictable Block Ciphers: PGV Model Revisited Liting Zhang, Wenling Wu, Peng Wang, Lei Zhang, Shuang Wu, and Bo Liang

12:25–14:05 Lunch

Session 6: Hash Functions II

- 14:05–14:30 Higher Order Differential Attack on Step-Reduced Variants of Luffa v1 Dai Watanabe, Yasuo Hatano, Tsuyoshi Yamada, and Toshinobu Kaneko
- 14:30–14:55 Rebound Attack on Reduced-Round Versions of JH Vincent Rijmen, Deniz Toz, and Kerem Varici

Session 7: Hash Functions III (Short Presentation) (Chair: Yu Sasaki)

- 14:55–15:10 Pseudo-cryptanalysis of the Original Blue Midnight Wish Søren S. Thomsen
- 15:10–15:25 Differential and Invertibility Properties of BLAKE Jean-Philippe Aumasson, Jian Guo, Simon Knellwolf, Krystian Matusiewicz, and Willi Meier
- 15:25–16:00 **Coffee Break**
- 16:00–17:30 Rump Session (Chair: Orr Dunkelman)
- 18:00–20:30 Gala Dinner & Social Event (Samcheonggak)

Wednesday, February 10, 2010

9:00–9:30 Registration (Coffee & Juice)

Invited Talk II

(Chair: Tetsu Iwata)

- 9:30–10:20 A Provable-Security Perspective on the Development of Hash Functions Thomas Shrimpton
- 10:20–10:50 Coffee Break

Session 8: Cryptanalysis

(Chair: Taizo Shirai)

- 10:50–11:15 Rotational Cryptanalysis of ARX Dmitry Khovratovich and Ivica Nikolić
 11:15–11:40 Another Look at Complementation Properties
- Charles Bouillaguet, Orr Dunkelman, Gaëtan Leurent, and Pierre-Alain Fouque
- 11:40–12:05 Super-Sbox Cryptanalysis: Improved Attacks for AES-like Permutations Henri Gilbert and Thomas Peyrin
- 12:05–12:10 Closing Remarks
- 12:10-13:50 Lunch

(Chair: Yu Sasaki)