

April 29, 2009 Wednesday

Session 8 15:45 – 16:35	Side Channels
15:45 – 16:10	A Unified Framework for the Analysis of Side-Channel Key Recovery Attacks <i>Francoix-Xavier Standaert, Tal Malkin, Moti Yung</i>
16:10 – 16:35	A Leakage-Resilient Mode of Operation <i>Krzysztof Pietrzak</i>
16:45 – 18:00	IACR Membership Meeting
19:00 – 23:00	Conference Dinner - Boat Cruise (2h, the boat leaves the pier of K&D at 20:00)

April 30, 2009 Thursday

Session 9 09:00 – 10:40	Curves
09:00 – 09:25	ECM on Graphics Cards <i>Daniel Bernstein, Tien-Ren Chen, Chen-Mou Cheng, Tanja Lange, Bo-Yin Yang</i>
09:25 – 09:50	Double-Base Number System for Multi-Scalar Multiplications <i>Christophe Doche, David Kohel, Francesco Sica</i>
09:50 – 10:15	Endomorphisms for Faster Elliptic Curve Cryptography on a Large Class of Curves <i>Steven Galbraith, Xibin Lin, Michael Scott</i>
10:15 – 10:40	Generating Genus Two Hyperelliptic Curves over Large Characteristic Finite Fields <i>Takakazu Satoh</i>
10:40 – 11:10	Coffee Break + Poster Session Slot
Session 10 11:10 – 12:25	Randomness
11:10 – 11:35	Optimal Randomness Extraction from a Diffie-Hellman Element <i>Pierre-Alain Fouque, Sebastien Zimmer, David Pointcheval, Celine Chevalier</i>
11:35 – 12:00	Verifiable Random Functions from Identity-based Key Encapsulation <i>Michel Abdalla, Dario Catalano, Dario Fiore</i>
12:00 – 12:25	A New Randomness Extraction Paradigm for Hybrid Encryption <i>Eike Kiltz, Krzysztof Pietrzak, Martijn Stam, Moti Yung</i>
12:25 – 12:40	Closing Remarks

Eurocrypt 2009

Conference Program 26. - 30. April 2009

April 26, 2009 Sunday

10:00 – 17:00	Board Meeting (only IACR Board members)
17:00 – 21:00	Welcome Reception and Registration

April 27, 2009 Monday

08:30	Registration Desk open
09:00 – 09:15	Welcome / Opening Remarks
Session 1 09:15 – 10:55	Security, Proofs and Models I
09:15 – 09:40	Possibility and Impossibility Results for Encryption and Commitment Secure under Selective Opening. <i>Mihir Bellare, Dennis Hofheinz, Scott Yilek</i>
09:40 – 10:05	Breaking RSA Generically is Equivalent to Factoring <i>Divesh Aggarwal, Ueli Maurer</i>
10:05 – 10:30	Resettably Secure Computation <i>Vipul Goyal, Amit Sahai</i>
10:30 – 10:55	On the Security Loss in Cryptographic Reductions <i>Chi-Jen Lu</i>
10:55 – 11:25	Coffee Break
Invited Talk 11:25 – 12:25	Practice-Oriented Provable-Security and the Social Construction of Cryptography <i>Phillip Rogaway</i>
12:45 – 13:45	Lunch
Session 2 13:45 – 15:25	Hash Cryptanalysis
13:45 – 14:10	On Randomizing Hash Functions to Strengthen the Security of Digital Signatures <i>Praveen Gauravaram, Lars R. Knudsen</i>
14:10 – 14:35	Cryptanalysis of MDC-2 <i>Lars R. Knudsen, Florian Mendel, Christian Rechberger, Soeren S. Thomsen</i>

14:35 – 15:00	Cryptanalysis on HMAC/NMAC-MD5 and MD5-MAC <i>Xiaoyun Wang, Hongbo Yu, Wei Wang, Haina Zhang, Tao Zhan</i>
15:00 – 15:25	Finding Preimages in Full MD5 Faster than Exhaustive Search <i>Yu Sasaki, Kazumaro Aoki</i>
15:25 – 16:25	Coffee Break + Poster Session Slot
Session 3 16:25 – 17:40	Group and Broadcast Encryption
16:25 – 16:50	Asymmetric Group Key Agreement <i>Qianhong Wu, Yi Mu, Willy Susilo, Bo Qin, Josep Domingo-Ferrer</i>
16:50 – 17:15	Adaptive Security in Broadcast Encryption Systems (with Short Ciphertexts) <i>Craig Gentry, Brent Waters</i>
17:15 – 17:40	Traitors Collaborating in Public: Pirates 2.0 <i>Olivier Billet, Duong-Hieu Phan</i>

April 28, 2009 Tuesday

08:30	Registration Desk open
Session 4 09:00 – 10:15	Cryptosystems I
09:00 – 09:25	Key Agreement from Close Secrets over Unsecured Channels <i>Bhavana Kanukurthi, Leonid Reyzin</i>
09:25 – 09:50	Order-Preserving Symmetric Encryption <i>Alexandra Boldyreva, Nathan Chenette, Younho Lee, Adam O'Neill</i>
09:50 – 10:15	A Double-Piped Mode of Operation for MACs, PRFs and PROs: Security beyond the Birthday Barrier <i>Kan Yasuda</i>
10:15 – 11:10	Coffee Break + Poster Session Slot
Session 5 11:10 – 12:25	Cryptanalysis
11:10 – 11:35	On the Security of Cryptosystems with Quadratic Decryption: The Nicest Cryptanalysis <i>Guilhem Castagnos, Fabien Laguillaumie</i>
11:35 – 12:00	Cube Attacks on Tweakable Black Box Polynomials <i>Itai Dinur, Adi Shamir</i>
12:00 – 12:25	Smashing SQUASH-0 <i>Khaleed Ouafi, Serge Vaudenay</i>
12:25 – 13:30	Lunch

	Social Program - Meeting Point 13:40 in the foyer!
14:00 – 18:00	<ul style="list-style-type: none"> • City Walking Tour (2,5 h) • City Bike Tour (3h) • Chocolate Museum (1h) • Wallraf-Richartz Museum (1h) • Boat Cruise (1h)
18:00 – 23:00	Rump Session

April 29, 2009 Wednesday

09:00 – 9:15	Best Paper Award Ceremony
Session 6 09:15 – 10:30	Cryptosystems II
09:15 – 09:40	Practical Chosen Ciphertext Secure Encryption from Factoring <i>Dennis Hofheinz, Eike Kiltz</i>
09:40 – 10:05	Realizing Hash-and-Sign Signatures under Standard Assumptions <i>Susan Hohenberger, Brent Waters</i>
10:05 – 10:30	A Public Key Encryption Scheme Secure against Key Dependent Chosen Plaintext and Adaptive Chosen Ciphertext Attacks <i>Jan Camenisch, Nishanth Chandran, Victor Shoup</i>
10:30 – 11:25	Coffee Break + Poster Session Slot
Invited Talk 11:25 – 12:25	Cryptography without (Hardly any) Secrets ? <i>Shafi Goldwasser</i>
12:25 – 13:45	Lunch
Session 7 13:45 – 15:25	Security, Proofs and Models II
13:45 – 14:10	Salvaging Merkle-Damgard for Practical Applications <i>Yevgeniy Dodis, Thomas Ristenpart, Thomas Shrimpton</i>
14:10 – 14:35	On the Security of Padding-Based Encryption Schemes (Or: Why we cannot prove OAEP secure in the Standard Model) <i>Eike Kiltz, Krzysztof Pietrzak</i>
14:35 – 15:00	Simulation without the Artificial Abort: Simplified Proof and Improved Concrete Security for Waters' IBE Scheme <i>Mihir Bellare, Thomas Ristenpart</i>
15:00 – 15:25	On the Portability of Generalized Schnorr Proofs <i>Jan Camenisch, Aggelos Kiayias, Moti Yung</i>
15:25 – 15:45	Coffee Break