ACISP 2018 Program

Location: University of Wollongong, Building 20, Ground Floor Talk time: full paper - 25 mins; short paper - 15 mins

2018-07-11 (Wednesday)

ZUTA-0	7-11 (wednesday)		
08:00-17:25	Reg	gistration	
09:00-09:30 Room 20-3	Opening Prof. Valerie Linton		
09:30 – 10:30 Room 20-3	Keynote (Chair: Willy Susilo) Strengthening the weakest links in IoT Security Prof. Robet H. Deng		
10:30 - 10:50	Coffee Break		
10:50 – 12:30 Room 20-3	Session 1: Blockchain and Cryptocurrency (Chair: TBA) Decentralized Blacklistable Anonymous Credentials with Reputation Rupeng Yang, Man Ho Au, Qiuliang Xu and Zuoxia Yu Z-Channel: Scalable and Efficient Scheme in Zerocash Yuncong Zhang, Yu Long, Zhen Liu, Zhiqiang Liu and Dawu Gu Fast Lottery-based Micropayments for Decentralized Currencies Kexin Hu and Zhenfeng Zhang Revisiting the Incentive Mechanism of Bitcoin-NG Jiayuan Yin, Changren Wang, Zongyang Zhang and Jianwei Liu		
12:30 – 13:30	Lunch		
13:30 – 14:30 Room 20-3	Jennifer Seberry Lecture (Chair: Jennifer Seberry) Location Privacy and its Applications Prof. Wanlei Zhou		
14:35 – 15:50 Session 2A: Room 20-3 Session 2B: Room 20-2	Session 2A: Post-quantum Cryptography (I) Chair (TBA) Efficient Decryption Algorithms for EFC Type Encryption Schemes Yacheng Wang, Yasuhiko Ikematsu, Dung Hoang Duong and Tsuyoshi Takagi Lattice-Based Dual Receiver Encryption and More Daode Zhang, Kai Zhang, Bao Li, Xianhui Lu, Haiyang Xue and Jie Li Post-Quantum Secure Confidential Transactions (Lattice RingCT v1.0) Wilson Alberto Torres, Ron Steinfeld, Amin Sakzad, Joseph Liu, Nandita Bhattacharjee, Man Ho Au and Jacob Cheng	Session 2B: Symmetric key Cryptography (I) Chair (TBA) Differential Attacks on Reduced Round LILLIPUT Nicolas Marriere, Valerie Nachef and Emmanuel Volte Bounds on the Differential and Linear Branch Number of Permutations Sumanta Sarkar and Habeeb Syed Keyed Sponge with Prefix-Free Padding: Independence between Capacity and Online Queries without the Suffix Key Yusuke Naito	
15:50 - 16:10	Coffee Break		
16:10 – 17:25 Session 3A: Room 20-3 Session 3B: Room 20-2	Session 3A: Public key Cryptography (I) Chair (TBA) Forward Secure Linkable Ring Signatures Thomas Haines and Xavier Boyen Private Functional Signatures: Definition and Construction Shimin Li, Bei Liang and Rui Xue Linkable Group Signature for Auditing Anonymous Communication Haibin Zheng, Qianhong Wu, Bo Qin, Lin Zhong, Shuangyu He and Jianwei Liu	Session 3B: System and Network Security Chair (TBA) Automatically Identifying Security Bug Reports via Multitype Features Analysis Deqing Zou, Zhijun Deng, Zhen Li and Hai Jin A Practical Privacy Preserving Protocol in Database-driven Cognitive Radio Networks Yali Zeng, Li Xu, Xu Yang and Qikui Xu TDDAD: Time-based Detection and Defense Scheme Against DDoS Attack on SDN Controller Jie Cui, Jiantao He, Yan Xu and Hong Zhong	
17:25 – 17:55 Room 20-3	Steering Co	mmittee Meeting	

2018-07-12 (Thursday)

2010-0	/-12 (Thursday)		
08:30 - 17:25	Registration		
09:30 – 10:30 Room 20-3	Keynote (Chair: Guomin Yang) Cognitive biometrics: a new frontier in identity science Prof. Patrizio Campisi		
10:30 - 10:50	Coffee Break		
10:50 – 12:30 Session 4A:	Session 4A: Post-quantum Crypto (II)	Session 4B: Foundation (I)	
Room 20-3	Chair (TBA) Lattice-Based Universal Accumulator with Efficient	Chair (TBA) A Deterministic Algorithm for Computing Divisors in an	
Session 4B: Room 20-2	Zero-Knowledge Arguments Zuoxia Yu, Man Ho Au, Rupeng Yang, Junzuo Lai and Qiuliang Xu Anonymous Identity-Based Hash Proof System from Lattices in the Standard Model Qiqi Lai, Bo Yang, Yong Yu, Chen Yuan and Liju Dong Complete Attack on RLWE Key Exchange with reused keys, without Signal Leakage Jintai Ding, Scott Fluhrer and Saraswathy Rv Cryptanalysis of the Randomized Version of a Lattice-Based Signature Scheme from PKC'08 Haoyu Li, Renzhang Liu, Abderrahmane Nitaj and Yanbin Pan	Interval Liqiang Peng, Yao Lu, Noboru Kunihiro, Rui Zhang and Lei Hu Efficient Bit-Decomposition and Modulus-Conversion Protocols with an Honest Majority Ryo Kikuchi, Dai Ikarashi, Takahiro Matsuda, Koki Hamada and Koji Chida Reusable Fuzzy Extractor from LWE Yunhua Wen and Shengli Liu A Reusable Fuzzy Extractor with Practical Storage Size: Modifying Canetti et.al.'s Construction Jung Hee Cheon, Jinhyuck Jeong, Dongwoo Kim and Jong Chan Lee	
12:30 – 13:30	Lunch		
13:30 – 14:30 Room 20-3	Keynote (Chair: Josef Pieprzyk)		
	Security and Privacy Challenges in Edge Computing Dr. Surya Nepal		
14:35 – 15:50 Session 5A: Room 20-3	Session 5A: Cloud Security Chair (TBA) Secure Publicly Verifiable Computation with Polynomial	Session 5B: Symmetric key Cryptography (II) Chair (TBA)	
Session 5B: Room 20-2	Commitment in Cloud Computing Jian Shen, Dengzhi Liu, Xiaofeng Chen, Xinyi Huang, Jiageng Chen and Mingwu Zhang Intrusion-Resilient Public Auditing Protocol for Data Storage in Cloud Computing Yan Xu, Ran Ding, Jie Cui and Hong Zhong Privacy-Preserving Mining of Association Rule on Outsourced Cloud Data from Multiple Parties Lin Liu, Jinshu Su, Rongmao Chen, Ximeng Liu, Xiaofeng Wang, Sh Hofung Leung	Distributed Time-Memory Tradeoff Attacks on Ciphers (with Application to Stream Ciphers and Counter Mode) Howard Heys New Iterated RC4 Key Correlations Ryoma Ito and Atsuko Miyaji A New Framework for Finding Nonlinear Superpolies in Cube Attacks against Trivium-Like Ciphers Ye Chen-Dong and Tian Tian	
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2018-07-13 (Friday)

08:30 - 12:30	Registration		
09:30 - 10:20 Session 7A: Room 20-3 Session 7B: Room 20-2	Session 7A: Security Protocol Chair (TBA) Secure Contactless Payment Handan Kilinc and Serge Vaudenay New Attacks and Secure Design for Anonymous Distance-Bounding Ahmad Ahmadi, Reihaneh Safavi-Naini and Mamunur Akand	Session 7B: Public key Cryptography (III) Chair (TBA) Key-updatable Public-key Encryption with Keyword Search: Models and Generic Constructions Hiroaki Anada, Akira Kanaoka, Natsume Matsuzaki and Yohei Watanabe Asymmetric Subversion Attacks on Signature Schemes Chi Liu, Rongmao Chen, Yi Wang and Yongjun Wang	
10:20 – 10:50	Coffee Break		
10:50 – 12:30 Session 8A: Room 20-3 Session 8B: Room 20-2	Chair (TBA) 21 - Bringing Down the Complexity: Fast Composable Protocols for Card Games Without Secret State Bernardo David, Rafael Dowsley and Mario Larangeira Verifiable secret sharing based on hyperplane geometry with its applications to optimal resilient proactive cryptosystems Zhe Xia, Liuying Sun, Bo Yang, Yanwei Zhou and Mingwu Zhang Towards Round-Optimal Secure Multiparty Computations: Multikey FHE without a CRS Eunkyung Kim, Hyang-Sook Lee and Jeongeun Park Robust Multiparty Computation with Faster Verification Time Souradyuti Paul and Ananya Shrivastava	Chair (TBA) Practical Signatures from the Partial Fourier Recovery Problem Revisited: A Provably-Secure and Gaussian-Distributed Construction Xingye Lu, Zhenfei Zhang and Man Ho Au Revocable Certificateless Encryption with Ciphertext Evolution Yinxia Sun, Futai Zhang and Anmin Fu A New Encryption Scheme Based on Rank Metric Codes Terry S. C. Lau and Chik How Tan Security Analysis and Modification of ID-Based Encryption with Equality Test from ACISP 2017 Hyung Tae Lee, Huaxiong Wang and Kai Zhang Constant-Size CCA-Secure Multi-hop Unidirectional Proxy Re-Encryption from Indistinguishability Obfuscation Junzuo Lai, Zhengan Huang, Man Ho Au and Xianping Mao	
12:30 – 12:40 Room 20-3	Conference Closing		
12:40- 13:40	Lunch		