

ICISC 2019

Call for Participants

The 22nd Annual International Conference on Information Security and Cryptology December 4(Wed)~6(Fri), 2019, Seoul, Korea

http://www.icisc.org

KOREANA Hotel, Seoul, Korea (http://www.koreanahotel.com)

TOPICS of INTEREST INCLUDE, but are not limited to

-Access Control & Audit
-Biometrics
-Cloud Computing Security
-Cryptanalysis
-Digital Forensics
-Distributed Systems Security
-Electronic Commerce
-Homomorphic Encryption
-ID-based Cryptography
-Intrusion Detection and Prevention
-Mobile Security
-Public Key Cryptography
-Side Channel Attacks and Countermeasures
-Software Security

-Authentication and Authorization -Block and Stream Ciphers -Copyright Protection -Cryptographic Protocol -Digital Signature -Efficient Implementation -Hash Function -Identity Management -Information Hiding -Key Management -Privacy Enhancement -Secure Multiparty Computation -Social Network Security -Smart Device Security

Improtant Dates

Conference Date : December 4(Wed) ~ 6(Fri), 2019 Submission Deadline : September 16(Mon), 2019 (UCT 22:00) Notification Due : October 28(Mon), 2019 Proceedings version deadline : November 7 (Thu), 2019 Early Registration : Before Nov.25, 2019 Before Nov.27, 2019

Committee

General Chair Hyun Sook Cho (National Security Research Institute, Korea) Kyung-Hyune Rhee (Pukyoung National University, Korea) Organizing Chair Changhoon Lee (Seoul National University of Science and Technology, Korea) Program Chair Jae Hong Seo (Hanyang University, Korea)

ICISC 2019 Program

Wednesday, (2019-12-04)				
8:30 - 9:20	Registration			
9:20 - 9:30	Opening Remarks			
	Session 1: Block Ciphers and Authenticated Encryption			
	(Session Chair: TBA)			
	A Revised Version of Block Cipher CHAM			
	Dongyoung Roh, Bonwook Koo, Younghoon Jung, Il Woong Jeong,			
	Dong-Geon Lee, Daesung Kwon, and Woo-Hwan Kim (The Affiliated			
	Institute of ETRI)			
0.00 40.45	Systematic Construction of Nonlinear Product Attacks on Block Ciphers			
9:30 - 10:45	Nicolas T. Courtois (University College London), Matteo Abbondati			
	(Independent Maths teacher based in London), Hamy Ratoanina			
	(University College London), and Marek Grajek (Independent			
	cryptography and crypto history expert)			
	Authenticated Encryption Based on Lesamnta-LW Hashing Mode			
	Shoichi Hirose (University of Fukui),Hidenori Kuwakado (Kansai			
	University), and Hirotaka Yoshida (National Institute of Advanced			
10:45 - 11:15	Industrial Science and Technology) Coffee Break			
	Invited Talk 1 (Session Chair: TBA)			
11:15 – 12:15	Practical Applications of Homomorphic Encrypton			
	Miran Kim (University of Texas)			
12:15 – 14:00	Lunch			
	Session 2: Block Ciphers Implementation			
	(Session Chair: TBA)			
	All the HIGHT You Need on Cortex-M4			
	Hwajeong Seo (Hansung University) and Zhe Liu (Nanjing University			
	of Aeronautics and Astronautics)			
	Fast AES implementation using ARMv8 ASIMD without Cryptography			
14:00 – 15:15	Extension			
	Hayato Fujii (University of Campinas), Felix Carvalho, Rodrigues			
	(University of Campinas), and Julio Lopez (University of Campinas)			
	FACE-LIGHT: Fast AES-CTR Mode Encryption for Low-end Microcontrollers			
	Kyungho Kim (Hansung University), Seung Ju Choi (Hansung			
	University), Hyeokdong Kwon (Hansung University), Zhe Liu (Nanjing			
	University of Aeronautics and Astronautics), and Hwajeong Seo			
15:15 - 15:45	(Hansung University) Coffee Break			
	Session 3: Secure Outsourcing and Cloud Security			
15:45 – 17:00	(Session Chair: TBA)			
	Sum it Up: Verifiable Additive Homomorphic Secret Sharing			
	Georgia Tsaloli and Aikaterini Mitrokotsa (Chalmers University of			
	Technology)			
	There Is Always an Exception: Controlling Partial Information Leakage in			
	Secure Computation			

Máté Horváth, Levente Buttyán, Gábor Székely and Dóra Neubrandt	
(CrySyS Lab, BME)	
An Automated Security Analysis Framework and Implementation for MTD	
techniques on Cloud	
Hooman Alavizadeh (Massey University), Hootan Alavizadeh (Imam	
Reza International University), Dong Seong Kim (The University of	
Queensland), Julian Jang-Jaccard (Massey University), and Masood	
Niazi Torshiz (Islamic Azad University)	

Thursday, (2019-12-05)				
Session 4: Post-Quantum Cryptography 1				
	(Session Chair: TBA)			
	Security Analysis of Group Action Inverse Problem with Auxiliary Inputs with			
	Application to CSIDH Parameters			
	Taechan Kim (NTT)			
	Secure Key Encapsulation Mechanism with Compact Ciphertext and Public			
	Key from Generalized Srivastava Code			
9:30 - 10:45	Jayashree Dey and Ratna Dutta (Indian Institute of Technology			
	Kharagpur)			
	Improvement of binary and non binary Statistical Decoding Algorithm			
	Pierre-Louis Cayrel (Laboratoire Hubert Curien), Cheikh Thiécoumba			
	Gueye (Université Cheikh Anta Diop), Junaid Ahmad Khan (Dongguk			
	University), Jean Belo Klamti (Université Cheikh Anta Diop), and			
	Edoardo Persichetti (Dakota State University)			
10:45 - 11:15	Coffee Break			
	Invited Talk 2 (Session Chair: TBA)			
11:15 – 12:15	Information Security in Quantum Time			
	Lily Chen (NIST)			
12:15 - 14:00	Lunch			
	Invited Talk 3 (Session Chair: TBA)			
14:00 - 15:00	Secure and Verifiable Computation			
	Huaxiong Wang (Nanyang Technological University)			
15:00 - 15:20	Coffee Break			
	Invited Talk 4 (Session Chair: TBA)			
15:20 - 16:20	Lattice-Based Zero-Knowledge Proofs: Shorter and Faster Constructions and			
	Applications			
16:20 - 16:40	Ron Steinfeld (Monash University) Coffee Break			
10.20 - 10.40	Session 5: Post-Quantum Cryptography 2			
	(Session Chair: TBA)			
	LizarMong: Excellent Key Encapsulation Mechanism based on RLWE and			
	RLWR			
	Chi-Gon Jung (Seoul National University), JongHyeok Lee (Kookmin			
16:40 – 17:30	University), Youngjin Ju (Hanyang University), Yong-Been Kwon			
	(Hansung University), Seong-Woo Kim (Seoul National University), and			
	Yunheung Paek (Seoul National University)			
	Efficient Identity-Based Encryption from LWR			
	Jung Hee Cheon (Seoul National University, Republic of Korea),			
	Haejin Cho (LG Electronics, Republic of Korea), Jaewook Jung (LG			

	Electronics, Republic of Korea), Joohee Lee (Seoul National University,			
	Republic of Korea), and Keewoo Lee (Seoul National University,			
	Republic of Korea)			
18:30 - 20:30	Banquet			
Friday, (2019-12-06)				
Session 6: Speeding Up Public Key Cryptography				
	(Session Chair: TBA)			
9:30– 10:30	Faster Bootstrapping of FHE over the Integers			
	Jung Hee Cheon (Seoul National University), Kyoohyung Han			
	(Coinplug Inc.), and Duhyeong Kim (Seoul National University)			
	Complete Addition Law for Montgomery Curves			
	Jaeheon Kim (The Affiliated Institute of ETRI), Je Hong Park (The			
	Affiliated Institute of ETRI), Dong-Chan Kim (Kookmin University), and			
	Woo-Hwan Kim (The Affiliated Institute of ETRI)			
10:30 - 11:00	Coffee Break			
	Session 7: Side-Channel Attack			
11:00 – 11:50	(Session Chair: TBA)			
	Improved CRT-RSA Secret Key Recovery Method from Sliding Window			
	Leakage			
	Kento Oonishi (The University of Tokyo), Xiaoxuan Huang (The			
	University of Tokyo), and Noboru Kunihiro (University of Tsukuba)			
	Differential random fault attacks on certain CAESAR stream ciphers			
	Kenneth Koon-Ho Wong, Harry Bartlett, Leonie Simpson and Ed			
	Dawson (Queensland University of Technology)			
	Farewell			

Registration

Conference Registration Fee

	Early Registration (On/Before Nov.25, 2019)	Late Registration (After Nov.25, 2019)
General Participant	\$500 (600,000 won)	\$600 (700,000 won)
Full-time Student	\$300 (350,000 won)	\$400 (500,000 won)

한국인등록자 사전등록 방법 (※ 국내 거주 외국인 포함)

▶ 학회 홈페이지(www.kiisc.or.kr) -> 학술행사 -> 학회행사 -> 사전등록시 성명/소속 영문으로 기재

▶ 사전등록 송금처

- 예금주: 한국정보보호학회
- 계좌번호: (국민은행) 754-01-0008-146
- ▶ 사전등록시 등록비는 위의 구좌로 송금하시고 입금자가 대리일 경우 통보바랍니다. 학생의 경우kiisc@kiisc.or.kr로 학생증 사본 송부바랍니다.
- * 반드시 영문 성함 / 소속으로 등록 바랍니다.
- ▶ 신용카드 결제 시 세금계산서 발급이 불가합니다.(부가가치세법 시행령 제57조)
- ▶ 사전등록 마감일: 2019년 11월 27일(수)
- ▶ 계산서 신청 시, 익일 안으로 등록하신 이메일로 청구용계산서가 발행됩니다. 영수용계산서가 필요하신 경우 사전 에 학회로 연락바랍니다.

International Participants Registration instruction and Registration Payment Method

▶ Offline registration : Please fill out the REGISTRATION form below and send it to us via fax +82-2-564-9226. Payment can be made with credit cards (Visa or Master Card only) or wire transfer payable in US dollars (\$) to ICISC 2019 (Koreans can pay in Korean currency (W))

• Online (E-mail) registration : Please fill out the REGISTRATION form below and send it to kiisc@kiisc.or.kr. Payment can be made with credit cards (Visa or Master Card only) or wire transfer payable in US dollars (\$) to ICISC 2019 (Koreans can pay in Korean currency (W)).

- Early Registration Due : 2019/11/25 (Mon.)
- · Credit card : Please fill out the Registration form
- Wire Transfer

beneficiary' name : KIISC beneficiary's account number : 754-01-0008-146 beneficiary's bank : Kookmin Bank the branch name : Yeoksamyeok Branch SWIFT code : CZNBKRSE beneficiary' address : Seongji Heights 3-Cha Bldg., Room 909 507, Nonhyeon-ro, Gangnam-gu, Seoul 06132, Korea

Contact

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