



**The 5th IEEE CCNC International Workshop on  
Security and Cognitive Informatics for Homeland Defense (SeCIHD 2017)**

8 January 2017, Las Vegas, USA

■ **Program**

**- 8:30 ~ 9:00 Welcome Message**

Workshop Chair, Ilsun You (Soonchunhyang University, South Korea)

**- 9:00 ~ 9:30 Using Network Traffic To Verify Mobile Device Forensic Artifacts**

Nikunj Malik (Johns Hopkins University, USA)

Jayanarayan Chandramouli (Johns Hopkins University, USA)

Prahlad Suresh (Johns Hopkins University, USA)

Kevin Fairbanks (Independent Contributor, USA)

Lanier Watkins (Johns Hopkins University, USA)

William H. Robinson (Vanderbilt University, USA)

**- 9:30 ~ 10:00 An Interoperable IP based WSN for Smart Irrigation Systems**

Md. Zainal Abedin (University of Science and Technology, Bangladesh)

Abu Sayeed Chowdhury (University of Science and Technology, Bangladesh)

Mohammad Shahadat Hossain (University of Chittagong, Bangladesh)

Karl Andersson (Luleå University of Technology, Sweden)

Razuan Karim (University of Science and Technology, Bangladesh)

**- 10:00 ~ 10:30 Networking Coffee Break**

**- 10:30 ~ 11:00 Analyzing HTTPS Encrypted Traffic to Identify User's Operating System,  
Browser and Application**

Jonathan Muehlstein (Ariel University, Israel)

Yehonatan Zion (Ariel University, Israel)

Maor Bahumi (Ariel University, Israel)

Itay Kirshenboim (Ariel University, Israel)

Ran Dubin (Ben-Gurion University of the Negev, Israel)

Amit Dvir (Ariel University, Israel)

Ofir Pele (Ariel University, Israel)

**- 11:00 ~ 11:30 Optimal Dynamic Routing Protocols for Agro-Sensor Communication in MANETs**

Kazy Noor E Alam Siddiquee (University of Science and Technology, Bangladesh)

Faria Farjana Khan (University of Science and Technology, Bangladesh)

Karl Andersson (Luleå University of Technology, Sweden)

Mohammad Shahadat Hossain (University of Chittagong, Bangladesh)

**- 11:30 ~ 12:00 Critical Infrastructure Network DDoS Defense, via Cognitive Learning**

Todd Booth (Luleå University of Technology, Sweden)

Karl Andersson (Luleå University of Technology, Sweden)

**- 12:00 ~ 13:30 Luncheon**

**- 13:30 ~ 14:00 APT Attack Behavior Pattern Mining Using the FP-Growth Algorithm**

Mungyu Lee (Chosun University, South Korea)

Junho Choi (Chosun University, South Korea)

Chang Choi (Chosun University, South Korea)

Pankoo Kim (Chosun University, South Korea)

**- 14:00 ~ 14:30 An Implement of Agent with Role-based Hierarchy Access Control for Secure Grouping IoT**

Hsing-Chung Chen (ASIA University, Taiwan)

**- 15:00 ~ 15:30 Networking Coffee Break**

**- 15:30 ~ 16:00 A 3D Encryption with Shifting Mapping Substitution Mechanism**

Yi-Li Huang (TungHai University, Taiwan)

Fang-Yie Leu (TungHai University, Taiwan)

Ilsun You (Soonchunhyang University, South Korea)

Rong-Yi Su (TungHai University, Taiwan)

Po-Hao Su (TungHai University, Taiwan)

Hsing-Chung Chen (ASIA University, Taiwan)

**- 16:00 ~ 16:30 INTERLOC: An Interference-Aware RSSI-Based Localization and Sybil Attack**

**Detection Mechanism for Vehicular Ad Hoc Networks**

Mevlut Turker Garip (University of California Los Angeles, USA)

Paul Hyungmin Kim (University of California Los Angeles, USA)

Peter Reiher (University of California Los Angeles, USA)

Mario Gerla (University of California Los Angeles, USA)

**- 16:30 ~ 17:00 Case Study on Password Complexity Enhancement for Smart Devices**

Xin Su (Hohai University, China)

Bingying Wang (Hohai University, China)

Chang Choi (Chosun University, South Korea)

Dongmin Choi (Chosun University, South Korea)

**- 17:00 ~ 17:30 Security Enhancement Using MRC Diversity Over Nakagami-m Fading Channels**

Mahmoud A. Khodeir (Jordan University of Science and Technology, Jordan)

Mamoun F. Al-Mistarihi (Jordan University of Science and Technology, Jordan)

Razan Shatnawi (Jordan University of Science and Technology, Jordan)

Laila Al Saleh (Jordan University of Science and Technology, Jordan)

**- 18:00 – 19:00 Opening Reception**