

Secure IoT-Based Information Platform with Privacy-Preserving Data Mining on Big Data for M-Healthcare

The 5th Joint Taiwan-Japan Research Grant 2018

July. 16, 2018@Meiji University

Surugadai Campus, Academy Common 308E (8F)

Opening 10:00~10:10

Speakers: Prof. Chun-I Fan and Prof. Hiroaki Kikuchi

Session 1: 10:10 ~ 11:20 Taiwan “Cloud Security” chair: Prof. Chun-I Fan

- (1) “Key-Policy Attribute-Based Encryption and Its Applications to Searchable Encryption”—**Mr. Yi-Fan Tseng**
- (2) “Secure Data Outsourcing Scheme Supporting Fast Recovery”
—**Mr. Jheng-Jia Huang**
- (3) “Secure File Transfer Protocol Based on Homomorphic Re-Encryption for Named Data Networks” — **Ms. Hsiang-Shian Fan**

11:30-12:00 Invited Talk

“Cavitas biosensors for IoT health care & preventive medicine”
— **Prof. Kohji Mitsubayashi** Institute of Biomaterials and
Bioengineering, Tokyo Medical and Dental University

12:30-14:00 Lunch Break : Lunch box & Campus Tour

14:00 - 14:30 Guest talk, chair: Prof. Chun-I Fan

- (4) Local Differentially Private Data Aggregation in Crowdsourcing with Federated Learning — **Prof. Chia-Mu Yu**

14:40~15:40 Session 3: Japan (Prof. Saito’s laboratory), chair: Ms. Xuping Huang

- (5) “On Estimating Platforms of Web User with JavaScript Math Object”
—**Mr. Takafumi Noda**
- (6) “Safe Trans Loader: Mitigation and Prevention of Memory Corruption Attacks for Released Binaries” —**Mr. Masahiro Yokoyama**

16:00~17:00 Session 4: Japan (PhD. Candidate) chair: Prof. Hiroaki Kikuchi

- (7) “Privacy Preserved Data Analysis for IoT mHealthcare based on Differential Privacy in Spectral Frequency Domain” — **Ms. Xuping Huang**
- (8) “Risk of Bitcoin Address to be Identified from Feature of Output Addresses”
—**Mr. Kodai Nagata**
- (9) “Impact Assessment of Password Reset MitM attack with Two-factor Authentication” —**Mr. Kota Sasa**
- (10) “Risk of Re-identification from Payment Card Histories in Multiple Domains”
—**Mr. Satoshi Ito**