ADIoT 2024 Program

Online platform:

https://meeting.tencent.com/dm/JDBQSlSQoOUy

#room number：728-510-058

26 December 2024 Arrival Day

27 December 2024 Main Program

8.45-9.00AM **Opening**

9.00-9.50AM (Keynote Session Chair: Weizhi Meng, Lancaster University, UK)

Keynote 1: Prof. Qiong Huang (South China Agricultural University, China)

9.50-10.40AM (Keynote Session Chair: Weizhi Meng, Lancaster University, UK)

Keynote 2: Dr. Guomin Yang (Singapore Management University, Singapore)

10.40-11.00AM **Tea break**

11.00-11.50AM (Keynote Session Chair: Weizhi Meng, Lancaster University, UK)

Keynote 3: Dr. Feng Lin (Zhejiang University, China)

12.00-14.00PM **Lunch**

14.00-15.30PM Session 1 (Session Chair: Jun Shao, Zhejiang Gongshang University, China)

An Efficient Edge-based Privacy-preserving Range Aggregation Scheme for Aging in Place System

Zhuliang Jia, Jinkun Gui, Rongxing Lu and Mohammad Mamun

An Empirical DNN Pruning Approach against Membership Inference Attacks

Matthew Chan, Aolin Ding, Amin Hass and Saman Zonouz

A Conflict-Aware Active Automata Learning Approach for BLE Device Status Machine Construction

Jian Xu, Long Yin, Heqiu Chai, Zhongsheng Wang and Chunyu Liu

Optimizing Indoor Network Element Layout for Enhanced Signal Coverage and Security in Location-Based Services

Xiaomin Yu and Xiaokun Yu

An Efficient Lattice-Based Authentication Protocol for the Vehicular Ad Hoc Network

Xinyong Chen, Jiageng Chen, Jinquan Luo and Hongwei Liu

15.30-16.00PM **Tea break**

16.00-17.30PM Session 2 (Session Chair: Jun Shao, Zhejiang Gongshang University, China)

An IoT-Based Privacy-Preserving Computer-Aided Diagnosis System for Skin Cancer Using Federated Learning and Homomorphic Encryption

Jichao Xiong, Jiageng Chen, Hui Liu, Guangyou Zhou, Jianqun Cui, Junyu Lin and Dian Jiao

GCFuzz: An Intelligent Method for Generating IoT Protocols Test Cases using GAN with CVAE

Hao Peng, Zhiguo Ding, Ming Zhong and Zisheng Zeng

VRMDA: Verifiable and Robust Multi-subset Data Aggregation scheme in IoT

Jianying Li, Shuo Zhou and Yining Liu

Assessing the Effectiveness of LLMs in Android Application Vulnerability Analysis

Vasileios Kouliaridis, Georgios Karopoulos and Georgios Kambourakis

Singularization: A New Approach to Design Block Ciphers for Resource Constrained Devices

Gilles Macario-Rat and Mihail-Iulian Plesa