

30 December, 2021

Tencent Meeting ID: 937-383-303

9: 00 – 9:10 Opening by General Chairs

9:10 – 9:20 EAI Welcome message

9: 20 - 10:20 Keynote Speech: Prof. Weizhi Meng

Title: Trust-based Collaborative Intrusion Detection in Internet of Things: Insider Threat and Countermeasures

10:20 – 10:30 COFFEE BREAK

10: 30 – 11:30 SESSION 1 Authentication and key agreement

User Authentication Using Body Vibration Characteristics

Zhang, Yuxuan (University of Electronic Science and Technology of China); Ren, Yanzhi (University of Electronic Science and Technology of China)

An Improved Authenticated Key Agreement Protocol for IoT and Cloud Server

Ma, Yongliu (Strategic Support Force Information Engineering University); Ma, Yuqian (Strategic Support Force Information Engineering University); Cheng, Qingfeng (Strategic Support Force Information Engineering University)

Efficient two-party authentication key agreement protocol using reconciliation mechanism from lattice

Wang , Jinhua (Science and Technology On Communication Security Laboratory); Chen , Ting (Science and Technology On communication Security Laboratory); Liu, Yanyan (Science and Technology On communication Security Laboratory); Zhou, Yu (Science and Technology On communication Security Laboratory); Dong, Xinfeng (Science and Technology On communication Security Laboratory)

Anonymous and Practical Multi-Factor Authentication for Mobile Devices Using Two-Server Architecture

Cao, Haiyan (Qinghai University); Xie, Yong (Qinghai University)

11:30 – 14: 00 LUNCH BREAK

14: 00 – 15:00 SESSION 2 Data security

Cross-chain Data Auditing for Medical IoT Data Sharing

Fan, Kuan (Northeastern University at Qinhuangdao); Liu, Zhuoxuan (Northeastern University); Liu, Mingxi (Northeastern University); Wen, Yihong (The 54th Research Institute of China Electronics Technology Group Corporation); Lu, Ning (Northeastern University at Qinhuangdao); Shi, Wenbo (Northeastern University)

Outsourced Privacy-Preserving SVM Classifier Model over Encrypted Data in IoT

Wang, Chen (Software College, Northeastern University, China); Xu, Jian <xuj@mail.neu.edu.cn> (Northeastern University, China); Dong, Yan (Software College, Northeastern University, China); Li, Jiarun (Software College, Northeastern University, China)

A Scheme of Anti Gradient Leakage of Federated Learning Based on Blockchain

Liu, Yuanzhen (Inner Mongolia Univ. of Science & Technology); Yang, Yanbo (Inner Mongolia University of Science & Technology); Zhang, Jiawei (Xidian Univ.); Li, Teng (Xidian Univ.); Li, Baoshan (Inner Mongolia Univ. of Science & Technology)

BSSD: A Blockchain-based Trusted Storage Mechanism for Business Data to Support Sustainable Development

Ren, Yongjun (Engineering Research Center of Digital Forensics of Ministry of Education, School of Computer, Nanjing University of Information Science and Technology); Liu, Ruyan (Engineering Research Center of Digital Forensics of Ministry of Education, School of Computer, Nanjing University of Information Science and Technology); Wang, Shenqing (College of Computer Science & Technology, Nanjing University of Aeronautics & Astronautics); Hu, Gang (College of Science and Engineering Management, Anhui University of Technology)

15:00 – 15:10 COFFEE BREAK

15:10 – 16:25 SESSION 3 Cryptography and network security

Analysis of a New Improved AES S-box Structure

CHENG, Rong (Science and Technology on Communication Security Laboratory); ZHOU, Yu (Science and Technology on Communication Security Laboratory); MIAO, Xudong (Science and Technology on Communication Security Laboratory); HU, Jianyong (Science and Technology on Communication Security Laboratory)

Social Internet of Things trust management based on implicit social relationship

Zhang, Hongbin (Hebei University of Science and Technology); Fan, Fan (Hebei University of science and technology); Zhao, Dongmei (Hebei Normal University); Liu, Bin (Hebei University of Science and Technology); Wang, Yanxia (Hebei Geological Workers' University); Liu, Jian (Hebei University of Science and Technology)

Romeo: SGX-based Software Anti-Piracy Framework

Du, Yanning (Xi'an University of Technology); Song, Xin (Xi'an University of Technology); Wang, Yichuan (Xi'an University of Technology)

P-TECS Opportunistic Routing Algorithm Integrating Multiple Node Attributes

Xu, Gang (Inner Mongolia University); Yang, Xiaoying (Inner Mongolia University); Chen, Jingjian (Inner Mongolia University); Huang, Baoqi (Inner Mongolia University)

Network Situational Awareness of Observation Surfaces Based on Vulnerability Information

Zhang, Hongbin (Hebei University of Science and Technology); Liu, Zhen (Hebei University of Science and Technology); Gao, Hongbin (Hebei University of Science and Technology); Liu, Bin (Hebei University of Science and Technology); Zhao, Dongmei (Hebei Normal University); Wang, Shangxing (Hebei University of Science and Technology)

16:25 – 16:30 CONFERENCE CLOSING