CSS 2021

13th International Symposium on Cyberspace Safety and Security
Copenhagen, Denmark (Online) | 9-11 November 2021

Program

Day1 (09 November 2021)	
10:00-10:15	Welcome
10:15-11:00	Keynote I
11:00-11:10	Short Break
11:10-12:10	Session I
12:10-13:00	Lunch Break
13:00-13:45	Keynote II
13:50-14:50	Session II
14:50-15:00	Short Break
15:00-16:00	Session III
16:00-16:45	Keynote III

Day2 (10 November 2021)	
09:30-10:15	Keynote IV
10:15-11:00	Keynote V
11:00-11:10	Short Break
11:10-12:10	Session IV
12:10-13:45	Lunch Break
13:45-14:30	Keynote IV
14:30-14:40	Short Break
14:40-15:20	Session V
15:20-15:30	Closing Remarks

Day3 (11 November 2021)	
No Event	

Day 1 (09 November 2021, CET Time)

10:00-10:15

Welcome Session (Session Chair: Weizhi Meng, DTU)

PC/General Chairs

10:15-11:00

Keynote I (Session Chair: Weizhi Meng, DTU)

Title: Em-Curve25519: Faster and Smaller

Zhe Liu, Nanjing University of Aeronautics and Astronautics, China

11:00-11:10

Short Break

11:10-12:10

Session: Security I (Session Chair: Leo Zhang, Deakin University)

- **Encrypted Malicious Traffic Detection Based on Ensemble Learning**

Fengrui Xiao, Feng Yang, Shuangwu Chen and Jian Yang.

- **A Federated Learning Assisted Conditional Privacy Preserving Scheme for Vehicle Networks**

Zhe Xia, Yifeng Shu, Hua Shen and Mingwu Zhang

- **Dissecting Membership Inference Risk in Machine Learning**

Navoda Senavirathne and Vicenc Torra

12:10-13:00

Lunch Break

13:00-13:45

Keynote II (Session Chair: Mauro Conti, University of Padua)

Title: The Quest for Industrial Host Security

Nils Ole Tippenhauer, CISPA Helmholtz Center for Information Security, Germany

13:50-14:50

Session II (Session Chair: Jinguang Han, Nanjing University of Finance and Economics)

- **Webshell Detection Based on Explicit Duration Recurrent Network**

Bailin Xie and Qi Li

- **A Practical Botnet Traffic Detection System using GNN**

Bonan Zhang, Jingjin Li, Chao Chen, Kyungmi Lee and Ickjai Lee

- **Vulnerability and Transaction behavior based detection of Malicious Smart Contracts**

Rachit Agarwal, Tanmay Thapliyal and Sandeep Shukla

14:50-15:00

Short Break

15:00-16:00

Session III (Session Chair: Wei-Yang Chiu, DTU)

- **A novel method of template protection and two-factor authentication protocol based on biometric and PUF**

Hui Zhang, Weixin Bian, Biao Jie and Shuwan Sun

- **Realizing Information Flow Control in ABAC Mining**

Radhika B S and R K Shyamasundar

- **Weak Password Scanning System for Penetration Testing**

Bailin Xie, Qi Li and Hao Qian

16:00-16:45

Keynote III (Session Chair: Weizhi Meng, DTU)

Title: Cyber-Physical-Social Systems: Design, Analytics, Security and Privacy

Laurence T. Yang, St Francis Xavier University, Canada

Day 2 (10 November 2021, CET Time)

09:30-10:15

Keynote IV (Session Chair: Weizhi Meng, DTU)

Title: Achieving Efficient and Privacy-Preserving Dynamic Skyline Query in Online Medical Diagnosis

Rongxing Lu, University of New Brunswick, Canada

10:15-11:00

Keynote V (Session Chair: Weizhi Meng, DTU)

Title: Artificial Intelligence for Biometric Technologies and Systems

Vincenzo Piuri, Universita' degli Studi di Milano, Italy

11:00-11:10

Short Break

11:10-12:10

Session IV (Session Chair: Zhe Xia, Wuhan University of Technology)

- **Environmental Adaptive Privacy Preserving Contact Tracing System for Respiratory Infectious Diseases**

Pengfei Wang, Xiangyu Su, Maxim Jourenko, Zixian Jiang, Mario Larangeira and Keisuke Tanaka

- **A Privacy-Preserving Logistics Information System with Traceability**

Quanru Chen, Jinguang Han, Jiguo Li, Liquan Chen and Song Li

- **Post-quantum Key Escrow for Supervised Secret Data Sharing on Consortium Blockchain**

Xiaowen Cai, Wenjing Cheng, Minghui Zhang, Chen Qian, Zhengwei Ren, Shiwei Xu and Jianying Zhou

12:15-13:45

Lunch Break

13:45-14:30

Keynote VI (Session Chair: Mauro Conti, University of Padua)

Title: What do i Trust? Securing Critical Infrastructure in Cyber War

Jianying Zhou, SUTD, Singapore

14:30-14:40

Short Break

14:40-15:20

Session V (Session Chair: Wei-Yang Chiu, DTU)

- **Flexible and Survivable Single Sign-On**

Federico Magnanini, Luca Ferretti and Michele Colajanni

- **The Analysis and Implication of Data Deduplication in Digital Forensics**

Izabela Savic and Xiaodong Lin

15:20-15:30

Closing Remarks (Session Chair: Weizhi Meng, DTU)