



EAI International Conference on  
**SECURITY AND PRIVACY  
IN COMMUNICATION NETWORKS**

**EAI SECURECOMM 2023**

**OCTOBER 19-21, 2023  
THE HONG KONG POLYTECHNIC UNIVERSITY,  
HONG KONG SAR, HONG KONG**



### Welcome to EAI SecureComm 2023

We are delighted to present the proceedings of the 19th EAI International Conference on Security and Privacy in Communication Networks (SecureComm 2023). This conference brought together researchers and practitioners from academia, industry, and government who are dedicated to exploring significant research avenues in the field.

Contained within these proceedings are 52 carefully selected papers out of a total of 180 submissions (with an acceptance rate of 28.9%) from universities, national laboratories, and the private sector. These submissions hailed from various regions including the Americas, Europe, Asia and Australasia. Each submission underwent a rigorous review process by globally recognized experts in cybersecurity. These accepted papers feature contributions from researchers representing 9 countries, with China and the USA emerging as the top two contributing nations.

A prosperous conference relies on the collaborative efforts of diverse stakeholders and individuals who have generously devoted their time and energy to disseminating the call for papers, submitting their research findings, participating in peer reviews and discussions, and more. Above all, we extend our sincere gratitude to the entire Organizing Committee who expertly guided the entire process of the conference. We are also immensely thankful to the Technical Program Committee members for their invaluable time and dedication in reviewing, offering feedback, engaging in debates, and ultimately selecting the papers. We extend our appreciation to the external reviewers as well, who provided their specialized expertise to support the Technical Program Committee. Additionally, we express our gratitude to all the authors, participants, and session chairs for their invaluable contributions. The unwavering support from the Steering Committee and EAI staff members also played a vital role in ensuring the resounding success of the conference. It has been an honor and a privilege to collaborate with such an exceptional and talented group of individuals.

We hope that the discussions and interactions were enriching experiences for all involved, and that the proceedings will serve as a catalyst for further research in the field.

*Xiapu Luo*  
*Xiaojiang Du*  
*Man Ho Allen Au*  
*Haixin Duan*  
*Mourad Debbabi*

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## PROF. WENYUAN XU

**TITLE:**

**RETHINKING IOT  
SECURITY:  
UNDERSTANDING AND  
MITIGATING OUT-OF-BAND  
VULNERABILITIES**

### **Bio:**

Wenyuan Xu is a Professor in the College of Electrical Engineering at Zhejiang University. She received her Ph.D. in Electrical and Computer Engineering from Rutgers University in 2007. Prior to joining Zhejiang University in 2013, she was a tenured faculty member in the Department of Computer Science and Engineering at the University of South Carolina in the United States.

Her research focuses on embedded systems security, smart systems security, and IoT security. She is a recipient of the National Science Fund for Distinguished Young Scholars of China, the NSF CAREER award, and various best-paper awards including ACM CCS 2017 and ACM AsiaCCS 2018. In addition, she is a program committee co-chair for NDSS 2022-2023 and USENIX Security 2024, and serves as an associate editor for IEEE TMC, ACM TOSN, and TPS.

### ABSTRACT:

Vulnerabilities pose a significant challenge in ensuring cybersecurity for information systems. In the past, vulnerabilities were mainly associated with functional defects in system software and hardware, known as “in-band vulnerabilities,” whereby “band” refers to the functional domain.

However, with the rapid development of the Internet of Things (IoT), new security issues have emerged that traditional vulnerability categorization may not fully cover. IoT devices rely on sensors and actuators to interact with the real world, but this interaction process between physical and digital systems has created defects that are difficult to analyze and detect.

These defects include unintentional coupling effects of sensors from ambient analog signals or abnormal channels that were not intentionally designed, collectively known as “out-of-band vulnerabilities.” Various security incidents have highlighted the prevalence of out-of-band vulnerabilities in IoT systems, and their activation can result in serious consequences.

To address this issue, we propose a vulnerability categorization framework that includes out-of-band vulnerabilities and provides examples for each category. Our talk highlights the need to shift the research paradigm for system security to encompass both in-band and out-of-band vulnerabilities in the intelligence era. Finally, we explore potential solutions for mitigating out-of-band vulnerabilities and securing IoT devices.



## PROF. ROBERT DENG

**TITLE:  
HARDWARE-ASSISTED DATA  
SECURITY & PRIVACY  
SOLUTIONS**

### **Bio:**

Robert Deng is AXA Chair Professor of Cybersecurity, Director of Secure Mobile Centre, and Deputy Dean for Faculty & Research, School of Computing and Information Systems, Singapore Management University (SMU). His research interests are in the areas of data security and privacy, mobile and IoT security, and applied cryptography. He received the Outstanding University Researcher Award from National University of Singapore, Lee Kuan Yew Fellowship for Research Excellence from SMU, and Asia-Pacific Information Security Leadership Achievements Community Service Star from International Information Systems Security Certification Consortium (ISC<sup>2</sup>). He is a Fellow of IEEE and Fellow of Academy of Engineering Singapore.

**ABSTRACT:**

Traditional public key cryptography and symmetric key cryptography are at the heart of ubiquitously deployed security solutions for protecting data in transit and storage (such as TLS, IPsec, WPA2 & WPA3, Signal Protocol, BitLocker). To protect data in use, many powerful crypto algorithms, such as functional encryption, fully homomorphic encryption, multi-party computation, and zero-knowledge proof, have been proposed. While significant progress has been made in the research of these advanced crypto techniques, they still suffer from high processing cost and are mostly limited to applications in certain niche areas. On the other hand, trusted execution environments (TEEs) offer hardware-assisted security guarantees with CPU speed performance but suffer from a larger attack surface. In this talk, we will first present an overview of TEEs' security features, threat models, attacks and countermeasures. We will then present our efforts on designing hardware-assisted crypto systems for data security and privacy, and show how crypto and TEE may complement each other and be combined to realize practical security solutions. Finally, we will point out some potential future research directions.

## Thursday, 19 October 2023

**08:30 – 09:00 Registration**

**09:00 – 09:30 Opening**

**09:30 – 10:30 Keynote I – Prof. Wenyuan Xu**

**10:30 – 11:00 Coffee Break**

**11:00 – 12:15 Privacy I (Session Chair: Haibo Hu)**

*\* Street Rep: A Privacy-Preserving Reputation Aggregation System*

*\* Split Without a Leak: Reducing Privacy Leakage in Split Learning*

*\* Practical Privacy-Preserving Community Detection in Decentralized Weighted Networks*

*\* PPEC: Privacy-Preserving and Cost-Effective Incremental Density Peak Clustering Scheme for Profit-Driven Clouds*

**12:15 – 13:45 Lunch**

**13:45 – 14:40 Authentication (Session Chair: Yiming Zhang)**

*\* Discovering and Understanding the Security Flaws of Authentication and Authorization in IoT Cloud APIs for Smart Home*

*\* Optimizing Lightweight Intermittent Message Authentication for Programmable Logic Controller*

*\* An Adaptive Authentication Protocol for Internet of Vehicles Based on Vehicle Density*



## Thursday, 19 October 2023

### **14:40 – 15:35 Blockchain and Distributed System Security (Session Chair: Shan Jiang)**

- \* *Demystifying Blockchain Scalability: Sibling Chains with Minimal Interleaving*
- \* *Byzantine Protocols with Asymptotically Optimal Communication Complexity*
- \* *VDABSys: A novel security-testing framework for blockchain systems based on vulnerability detection*

### **15:35 – 16:05 Coffee Break**

### **16:05 – 17:00 Software Security (Session Chair: Xin Liu)**

- \* *CV2XFuzzer: C-V2X Parsing Vulnerability Discovery System Based on Fuzzing*
- \* *Learning AI coding style for software plagiarism detection*
- \* *Understanding and Measuring Inter-Process Code Injection in Windows Malware*

### **17:00 – 17:55 AI for Security I (Session Chair: Kai Zhou)**

- \* *Unsupervised Multi-Criteria Adversarial Detection in Deep Image Retrieval*
- \* *VRC-GraphNet: A Graph Neural Network-based Reasoning Framework for Attacking Visual Reasoning Captchas*
- \* *CyberEA: An Efficient Entity Alignment Framework for Cybersecurity Knowledge Graph*

### **18:15 Gathering time for Welcome Reception**

### **19:00 Welcome Reception**

## Friday, 20 October 2023

**09:00 – 10:00 Keynote II – Prof. Robert Deng**

**10:00 – 10:30 Coffee Break**

**10:30 – 11:25 Cryptography I (Session Chair: Jinqiang Lin)**

*\* HeSUN: Homomorphic Encryption for Secure Unbounded Neural Network Inference*

*\* Efficient Zero Knowledge for Regular Language*

*\* Certificateless Aggregate Signature Without Trapdoor for Cloud Storage*

**11:25 – 12:20 IoT Security (Session Chair: Jianwei Zhuge)**

*\* Enhancing Cross-Device Security with Fine-Grained Permission Control*

*\* The Security Analysis of ROS2 Communication*

*\* VET: Autonomous Vehicular Credential Verification using Trajectory and Motion Vectors*

**12:20 – 13:50 Lunch**

**13:50 – 15:05 Intrusion and Anomaly Detection (Session Chair: Shuyuan Jin)**

*\* A Game Theoretical Analysis of Distributed Denial-of-Service Defense Incentive*

*\* MVTBA: A Novel Hybrid Deep Learning Model for Encrypted Malicious Traffic Identification*

*\* DDoS Mitigation Dilemma Exposed: A Two-Wave Attack with Collateral Damage of Millions*

*\* POP-HIT: Partially Order-Preserving Hash-Induced Transformation for Privacy Protection in Face Recognition Access Control*

## Friday, 20 October 2023

### **15:05 – 16:00 Privacy II (Session Chair: Xingye Lu)**

- \* *Efficient and Scalable Multi-Party Privacy-Preserving  $k$ -NN Classification*
- \* *Do Backdoors Assist Membership Inference Attacks?*
- \* *Efficient Unbalanced Private Set Intersection Protocol over Large-scale Datasets Based on Bloom Filter*

### **16:00 – 16:30 Coffee Break**

### **16:30 – 17:25 AI for Security II (Session Chair: Chuhan Wang)**

- \* *Classify Me Correctly if You Can: Evaluating Adversarial Machine Learning Threats in NIDS*
- \* *CUFT: CufLOW-based Approach with Multi-headed Attention Mechanism for Encrypted Traffic Classification*
- \* *Meta Perturbation Generation Network for Text-based CAPTCHA*

**18:00      Gathering time for Dinner Banquet**

**19:00      Dinner Banquet**

## Saturday, 21 October 2023

### **09:00 – 10:15 Data Security (Session Chair: Chaoyi Lu)**

- \* *An Efficient Private Information Retrieval Protocol Based on TFHE*
- \* *mShield: Protect In-process Sensitive Data Against Vulnerable Third-Party Libraries*
- \* *An Authentication Algorithm for Sets of Spatial Data Objects*
- \* *Password Cracking by Exploiting User Group Information*

### **10:15 – 10:45 Coffee Break**

### **10:45 – 12:00 Network Security (Session Chair: Chaoyi Lu)**

- \* *Visibility of Scan Traffic Trends in Sparsely Populated Darknets*
- \* *A Stable Fine-grained Webpage Fingerprinting: Aiming at the Unstable Realistic Network*
- \* *Unsupervised and Adaptive Tor Website Fingerprinting*
- \* *Securing Web Inputs using Parallel Session Attachments*

### **12:00 – 13:30 Lunch**

### **13:30 – 14:45 Program Analysis (Session Chair: Hao Zhou)**

- \* *Ransomware as a Service: Demystifying Android Ransomware Generators*
- \* *Identifying Library Functions in Stripped Binary: Combining Function Similarity and Call Graph Features*
- \* *Analyzing Implementation based SSL/TLS Vulnerabilities with Binary Semantics Analysis*
- \* *PDFIET: Technique of PDF Malicious Indicators Extraction through Optimized Symbolic Execution*

## Saturday, 21 October 2023

### **14:45 – 16:00 Cryptography II (Session Chair: Shang Gao)**

- \* *Enabling Fast Settlement in Atomic Cross-Chain Swaps*
- \* *Batch Lattice-Based Designated-Verifier ZK-SNARKs for R1CS*
- \* *Optimization of Functional Bootstrap with Large LUT and Packing Key Switching*
- \* *Anonymous Key Issuing Protocol with Certified Identities in Identity-based Encryption*

### **16:00 – 16:30 Coffee Break**

### **16:30 – 17:25 AI for Security III (Session Chair: Mengyuan Zhang)**

- \* *DNN Architecture Attacks via Network and Power Side Channels*
- \* *Model Inversion Attacks on Homogeneous and Heterogeneous Graph Neural Networks*
- \* *Invisibility Spell: Adversarial Patch Attack Against Object Detectors*

### **17:25 – 17:45 Workshop: Lightweight Intrusion Detection for IoT Systems using Artificial Neural Networks (Session Chair: Mengyuan Zhang)**

### **17:45 Closure**

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Thank you for participating at EAI conference and

**We hope to see you again!**