# **CONFERENCE PROGRAM**



# 2025 International Conference on INFORMATION AND COMMUNICATIONS SECURITY

Nanjing, China

October 29-31, 2025



# **CONFERENCE PROGRAM**



## **2025 International Conference on**

# **Information and Communications Security**

October 29-31, 2025 Nanjing, China

#### **Organized By**













Photo live streaming /照片直播



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#### **GENERAL INFORMATION**

#### Conference Venue





#### **Onsite Registration**

#### Holiday Inn Nanjing Qinhuai South/南京上秦淮假日酒店

NO.21 Mozhou East Road, Jiangning District, Nanjing, JS, 211111, China 中国江苏省南京市江宁区秣周东路 21号

Arrive at Registration desk→ Inform the staff of your paper name→ Sign-in→ Claim your conference kit.

#### Devices Provided by the Organizer

Oral Session: Laptops (with MS-Office & Adobe Reader) / Projectors & Screen / Laser Sticks

#### Materials Provided by the Presenter

Oral Session: Slides (pptx or pdf version). Format 16:9 is preferred.

#### **Duration of Each Presentation**

Keynote Speech: 60min, including Q&A. Oral Session: 20min, including Q&A.

## Notice

- \* Please wear your delegate badge (name tag) for all the conference activities. Lending your participant card to others is not allowed.
- \* Please take good care of your valuables at any time during the conference. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants during conference day.

#### **Contact us**

E-mail: icics2025@gmail.com

#### WELCOME MESSAGE

On behalf of the conference committees, we warmly welcome you to the 2025 International Conference on Information and Communications Security (ICICS 2025), held in Nanjing, China from October 29 to 31, 2025, organized by Southeast University (China), Swinburne University of Technology (Australia) and University of Wollongong (Australia).

ICICS was initiated in 1997, this year marks the 27th anniversary of ICICS conference. The goal and feature of this conference is to bring together researchers and practioners from both academia and industry to discuss and exchange their experiences, lessons learned, and insights related to information and communications security.

The program this year was comprised of 3 keynote lectures and 18 oral sessions.

On behalf of all the conference committees, we feel deeply grateful to all that have contributed to make this event possible: authors who contributed papers, the session chairs and the diligent reviewers. Your high competence, enthusiasm, valuable time and expertise knowledge, enabled us to prepare this conference program smoothly. Special thanks are also extended to the conference administrative committee for their tireless efforts throughout the course of the conference.

We have an exciting program at this conference that will allow members to reflect upon and celebrate our past accomplishments, renew friendships and extend our networks, and jointly explore current and future research directions. We hope that you will have a productive and fun - filled time at this very special conference. We would like to thank all of the sponsoring organizations for providing their generous financial support. Lastly, we would like to thank all of the conference participants for their contributions which are the foundation of this conference. We welcome different opinions from all participants and look forward to the better development of ICICS in the coming years.

Wish you a very successful conference!

Best regards,

Conference Organizing Committee, ICICS 2025 Nanjing

#### **Steering Committee Chair**

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Bo Luo, University of Kansas, USA

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Zheng Yang, Southwest University, China

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Yang Yu, Tsinghua University, China

Yong Yu, Shaanxi Normal University, China

Quan Yuan, Shandong University, China

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Futai Zhang, Fujian Normal University, China

Lei Zhang, East China Normal University, China

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Zongyang Zhang, Beihang University, China

Yunlei Zhao, Fudan University, China

Liang Zhao, Sichuan University, China

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Huiyu Zhou, University of Leicester, UK

Youwen Zhu, Nanjing University of Aeronautics and Astronautics, China

Sencun Zhu, Pennsylvania State University, USA

Xiaogang Zhu, University of Adelaide, Australia

Cong Zuo, Beijing Institute of Technology, China

# **AGENDA OVERVIEW**

Holiday Inn Nanjing Qinhuai South	3F	5F
南京上秦淮假日酒店	Qinhuai Amazing B/尚秦淮 B 厅	Upark/悠谷厅
NO.21 Mozhou East Road, Jiangning District,	Ulake/悠湖厅	Knowledge/智慧厅/
Nanjing, JS, 211111, China		
中国江苏省南京市江宁区秣周东路 21 号		

<b>Session Time</b>	Tuesday, October 28, 2025   Registration	Venue
14:00-21:00	On-site Registration	1F Lobby <holiday inn="" nanjing="" qinhuai="" south="" 南京上秦淮假日酒店=""></holiday>

Session Time	Wednesday, October 29, 2025   Plenary Meeting & Oral Session	
00.00 00.15	Host -Jinguang Han, Southeast University, China	
09:00-09:15	Opening Remark	
	Host - Yang Xiang, Swinburne University of Technology, Australia	3F Qinhuai Amazing B 3 楼尚秦淮 B 厅
09:15-10:15	Keynote Speech I  Title: Device Awareness and User Privacy in the IoT Ecosystem  Gene Tsudik (University of California, Irvine, USA)	
10:15-10:45	Coffee Break	
	<b>Session 1:</b> Blockchain and Cryptocurrencies 1 Session chair: Xingye Lu, Hong Kong Polytechnic University, China	3F Qinhuai Amazing B 3 楼尚秦淮 B 厅
10:45-12:25	<b>Session 2:</b> Access Control Session Chair: Mingwu Zhang, Hubei University of Technology, China	5F Knowledge/5 楼智慧厅
	<b>Session 3:</b> Traffic Classification Session Chair: Antonio Lioy, Politecnico di Torino, Italy	5F Upark /5 楼悠谷厅
12:25-14:00	Lunch <1F Peppers All Day Dining Restaurant/1 楼百香全日餐	丁>
	<b>Session 4:</b> Crypto 1 Session Chair: Man Ho Au, Hong Kong Polytechnic University, China	5F Upark/5 楼悠谷厅
14:00-15:40	<b>Session 5:</b> Anonymity and Privacy 1 Session Chair: Meng Li, Hefei University of Technology, China	5F Knowledge/5 楼智慧厅
	<b>Session 6:</b> Security and Privacy of AI 1 Session Chair: Yuan Zhang, Nanjing University, China	3F Ulake/3 楼悠湖厅
15:40-16:10	Coffee Break	
	Session 7: Crypto 2 Session Chair: Hua Guo, Beihang University, China	5F Upark/5 楼悠谷厅
16:10-17:50	<b>Session 8:</b> Anonymity and Privacy 2 Session Chair: Xiaofen Wang, University of Electronic Science and Technology of China	5F Knowledge/5 楼智慧厅
	<b>Session 9:</b> Security and Privacy of AI 2 Session Chair: Jianghua Liu, Nanjing University of Science and Technology, China	3F Ulake/3 楼悠湖厅
18:00-20:00	Dinner <1F Peppers All Day Dining Restaurant/1 楼百香全日餐	厅>

# **AGENDA OVERVIEW**

Session Time	Thursday, October 30, 2025   Plenary Meeting & Oral Session	
	Host - Jianying Zhou, Singapore University of Technology and Design, Singapore	
09:00-10:00	Keynote Speech II  Title: Cyber Ranges and Cyber-Physical Ranges: Progress, Potential, and Future Directions  Sokratis Katsikas (Norwegian University of Science and Technology, Norway)	5F Upark/5 楼悠谷厅
10.00 10.20	, , , , , , , , , , , , , , , , , , , ,	
10:00-10:30	Coffee Break	
	<b>Session 10:</b> Machine Learning for Security Session Chair: Weizhi Meng, Lancaster University, UK	5F Upark/5 楼悠谷厅
10:30-12:10	<b>Session 11:</b> System and Network Security Session Chair: Sokratis Katsikas, Norwegian University of Science and Technology, Norway	5F Knowledge/5 楼智慧厅
	<b>Session 12:</b> Vulnerability Analysis Session Chair: Tao Guo, Southeast University, China	3F Ulake/3 楼悠湖厅
12:25-14:00	Lunch <1F Peppers All Day Dining Restaurant/1 楼百香全日餐厅>	
14:00-17:30	Steering Committee Meeting & Social Event (National Geopark of Mount Fang)	
18:00-20:00	Banquet & Award Ceremony <3F Qinhuai Amazing B/3 楼尚秦淮 B 厅>	

Session Time	Friday, October 31, 2025   Plenary Meeting & Oral Session	
	Host - Jinguang Han, Southeast University, China	
09:00-10:00	Title: Post-Quantum Group-Oriented Anonymous Signatures from Symmetric Primitives <b>Liqun Chen</b> (University of Surrey, UK)	5F Upark/5 楼悠谷厅
10:00-10:30	Coffee Break	
	Session 13: Blockchain and Cryptocurrencies 2 Session Chair: Yiwei Xu, Southeast University, China	5F Upark/5 楼悠谷厅
10:30-12:10	Session 14: Post-Quantum Crypto Session Chair: Chao Sun, Southeast University, China	5F Knowledge/5 楼智慧厅
	<b>Session 15:</b> Attack and Defense 1 Session Chair: Yuanmi Chen, East China Normal University, China	3F Ulake/3 楼悠湖厅
12:10-14:00	Lunch <1F Peppers All Day Dining Restaurant/1 楼百香全日餐厅>	
	Session 16: Crypto, Steganography and Watermarking Session Chair: Yang Shi, Tongji University, China	5F Upark/5 楼悠谷厅
14:00-16:00	Session 17: Anomaly Detection Session Chair: Bruno Crispo, University of Trento, Italy	5F Knowledge/5 楼智慧厅
	<b>Session 18:</b> Attack and Defense 2 Session Chair: Jianchang Lai, Southeast University, China	3F Ulake/3 楼悠湖厅
16:00-16:30	Coffee Break	
16:30-17:00	Closing Session	5F Upark/5 楼悠谷厅
18:00-20:00	Dinner <1F Peppers All Day Dining Restaurant/1 楼百香全日餐	厅>

#### **KEYNOTE SPEAKER**

09:15-10:15 Wednesy, October 29,2025 3F Qinhuai Amazing B/3 楼尚秦淮 B 厅



## Gene Tsudik

University of California, Irvine, USA

Speech Title: Device Awareness and User Privacy in the IoT Ecosystem

**Biography:** Gene Tsudik is a Distinguished Professor of Computer Science at the University of California, Irvine (UCI). He obtained his PhD in Computer Science from USC in 1991. Before coming to UCI in 2000, he was at IBM Zurich Research Laboratory (1991-1996) and USC/ISI (1996-2000). His research interests include many topics in security, privacy and applied cryptography. Gene Tsudik is a Fulbright Scholar, a fellow of ACM, IEEE, AAAS, and IFIP, as well as a foreign member of Academia Europaea. From 2009 to 2015 he served as Editor-in-Chief of ACM TOPS. He was the recipient of the 2017 ACM SIGSAC Outstanding Contribution Award, the 2020 IFIP Jean-Claude Laprie Award, the 2023 ACM SIGSAC Outstanding Innovation Award, the 2024 NDSS Test-of-Time Award, and a 2024 Guggenheim Fellowship. He authored the first rhyming crypto-poem published as a refereed paper.

Abstract: As many types of IoT devices worm their way into numerous settings in our daily lives, awareness of their presence and functionality becomes a source of major concern. Hidden IoT devices can snoop (via sensing) on unsuspecting nearby users, and impact the environment where unaware users are present, via actuation. This prompts, respectively, privacy and security/safety issues. The dangers of hidden IoT devices have been recognized and prior research suggested some means of mitigation, mostly based on traffic analysis or using specialized hardware to uncover devices. While such approaches are partially effective, there is currently no comprehensive approach to IoT device transparency. Prompted in part by recent privacy regulations (GDPR and CCPA), this work constructs a privacy-agile Root-of-Trust architecture for IoT devices called PAISA: Privacy-Agile IoT Sensing and Actuation. It guarantees timely and secure announcements of nearby IoT devices' presence and capabilities. PAISA has two components: one on the IoT device that guarantees periodic announcements of its presence even if all device software is compromised, and the other on the user device, which captures and processes announcements. PAISA requires no hardware modifications; it uses a popular off-the-shelf Trusted Execution Environment (TEE) - ARM TrustZone. A follow-on work, DB-PAISA, complements PAISA by offering request-based discovery of IoT devices via BlueTooth. To demonstrate viability, both PAISA and DB-PAISA are available as open-source prototypes. We also address their security properties and performance factors.

#### **KEYNOTE SPEAKER**

09:00-10:00 Thursday, October 30, 2025 5F Upark/5 楼悠谷厅



## **Sokratis Katsikas**

Norwegian University of Science and Technology, Norway

Speech Title: Cyber Ranges and Cyber-Physical Ranges: Progress, Potential, and Future Directions

Biography: Sokratis K. Katsikas was born in Athens, Greece, in 1960. He is the Director of the Norwegian Centre for Cybersecurity in Critical Sectors and Professor with the Department of Information Security and Communication Technology, Norwegian University of Science and Technology. He is also Professor Emeritus of the Department of Digital Systems, University of Piraeus, Greece, and Member of the Board of the University of Patras, Greece. In 2019 he was awarded a Doctorate Honoris Causa from the Department of Production and Management Engineering, Democritus University of Thrace, Greece. In May-June 2023 he served as Minister of Digital Governance in the interim (caretaking) government of the Hellenic Republic. Among others, he has been the Rector of the Open University of Cyprus; the Rector and Vice-Rector of the University of the Aegean, Greece; President of the National Education Council of Greece; State Secretary of Telecommunications and Posts of the Hellenic Republic; Member of the Board of the Hellenic Authority for Communication Security and Privacy (ADAE); and Member of the Board of the Hellenic Authority for Higher Education (HAHE). In 2023 and in 2024 he was listed in the Stanford University list of the top 2% most cited scientists worldwide and in 2024 he was listed in the ScholarGPS Top Scholars list of the top 0.5% of all scholars worldwide. In 2025 he received the IEEE SMC TC on Homeland Security Research and Innovation Award. He has authored or co-authored more than 300 journal papers, book chapters and conference proceedings papers. He is serving on the editorial board of several scientific journals, he has co-authored/edited 52 books and conference proceedings and has served on/chaired the technical programme committee of more than 1000 international scientific conferences. He is a member of the Steering Committee of the ESORICS Conference (chair 2017-2023) and of several other international conferences and he is the Editor-in-Chief of the International Journal of Information Security (Springer).

Abstract: A Cyber Range (CR) serves as a specialized environment designed to provide dedicated testbeds and infrastructures for executing immersive training scenarios. Its primary goal is to enhance cybersecurity knowledge among security practitioners and awareness among non-security professionals and the public, while offering a hands-on learning experience for trainees. Over time, CRs have become an indispensable tool, offering a multifaceted approach to strengthening cybersecurity postures. On the other hand, Cyber-Physical Systems (CPSs) are advanced, intelligent systems that integrate physical processes with computational elements. These encompass diverse applications such as smart grids, autonomous vehicles, medical devices, process control systems, and autopilot avionics. As a fundamental pillar of Industry 4.0, CPSs drive the convergence of formerly distinct operational technology and modern information systems. Within this evolving technological landscape, Cyber-Physical Ranges (C-PRs) have emerged as an innovative and cost-effective solution that enable researchers and practitioners to explore vulnerabilities and devise robust defense mechanisms—without compromising real-world systems. This talk will first introduce a comprehensive taxonomy of CR systems, followed by an analysis of existing literature focusing on architecture, scenario development, capabilities, roles, tools, and evaluation criteria. Subsequently, we will present a fine-grained reference architecture for CRs, built upon a rigorous three-step methodology. Additionally, we will propose an evaluation framework that quantifies the alignment of a CR with state-of-the-art practices, offering a standardized method to identify optimal components for implementing the structural, functional, and informational facets of a CR. Finally, we will explore the latest advancements in C-PRs through real-world case studies, uncovering the challenges associated with designing, deploying, and managing these environments. We will also discuss their seamless integration with emerging technologies, illustrating their pivotal role in the future of cybersecurity research and innovation.

#### **KEYNOTE SPEAKER**

09:00-10:00 Friday 31, 2025 5F Upark/5 楼悠谷厅



**Liqun Chen**University of Surrey, UK

Speech Title: Post-Quantum Group-Oriented Anonymous Signatures from Symmetric Primitives

**Biography:** Liqun Chen is a Professor in Secure Systems at the University of Surrey. Before taking up this position in 2016, she was a principal research scientist at Hewlett-Packard Laboratories in Bristol, UK. Her 19 years working for the company led to 79 granted US patents. She developed several cryptographic schemes that were adopted by international standards bodies, such as ISO/IEC, IEEE and TCG (Trusted Computing Group). Notably, she co-designed several cryptographic algorithms, including direct anonymous attestation, which are used in the Trusted Platform Module (TPM). She was the technical leader and principal investigator in the EU H2020 FutureTPM project, which identified and developed algorithms for a TPM that would be secure against quantum computer attacks. Additionally, she has served as a principal investigator in six other EU Horizon projects that utilise post-quantum cryptography, trusted computing and distributed ledger technologies to achieve security, privacy and trust in real-world applications. She has acted as an editor or co-editor for 11 ISO/IEC documents and assisted with TCG's TPM specifications. Her current research interests include applied cryptography, post-quantum cryptography, trusted computing, and security standardisation.

**Abstract:** Group-oriented anonymous digital signatures, including group signatures, direct anonymous attestation (DAA) and enhanced privacy ID (EPID), have become important cryptographic primitives in information and communications security. Schemes using RSA and elliptic curve cryptography have been integrated into real-world applications and international standards. However, these standardised schemes are insecure against quantum attackers. Research into post-quantum (PQ) anonymous signatures has led to several schemes across various PQ cryptographic families. In this talk, we will focus on designing anonymous signature schemes based on symmetric techniques. For instance, we utilise a hash-based signature as a group membership credential. An anonymous signature is a non-interactive zero-knowledge proof of such a credential. We will also discuss robust design, strong security properties and efficient performance, particularly in relation to accommodating large group sizes, which is essential for rapidly developing applications.

Session 1: Blo	ckchain and Cryptocurrencies 1	10:45-12:25
Session Chair: X	(ingye Lu, Hong Kong Polytechnic University, China	<b>Wednesday, Oct 29, 2025</b> 3F Qinhuai Amazing B/3 楼尚秦 淮 B 厅
Time	Speech Title & Authors	
10:45-11:05	<b>EquinoxBFT: BFT Consensus for Blockchain Emergency Governance</b> Jialiang Fan, Qianhong Wu, Minghang Li, Decun Luo, Qin Wang and Bo Qin	
11:05-11:25	fFuzz: A State-aware Function-level Fuzzing Framework for Smart Contract Vulnerabilities Detection Chang Li, Binqin Lu, Wenyang Zhang, Kaixuan Yang and Huijuan Zhu	
11:25-11:45	TraceBFT: Backtracking-based Pipelined Asynchronous BFT Consensus for High-Throughput Distributed Systems Haofeng Zhuang, Haifeng Qian, Junqing Gong and Zhili Chen	
11:45-12:05	RADIAL: Robust Adversarial Discrepancy-aware Framework for Early Detection of Illicit Cryptocurrency Accounts  Victor Kombou, Qi Xia, Jianbin Gao, Hu Xia, Brinda Leaticia Kuiche Sop and Leoba Jonathan Anto	
12:05-12:25	BR-CPPFL: A Blockchain-based Robust Clustered Pr Learning System Yuantong Li, Xiaofen Wang, Ke Zhang, Bo Zhang, Lei Zhang	

Session 2: Acc	ess Control	10:45-12:25
Session Chair: M	lingwu Zhang, Hubei University of Technology, China	Wednesday, Oct 29, 2025
		5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
10:45-11:05	Circulation Control Model and Administration for Geospatial Data Heng Li, Fenghua Li, Yunchuan Guo, Lingcui Zhang, Xiao Wang and Ziyan Zhou	
11:05-11:25	Identifying Unusual Personal Data in Mobile Apps for Better Privacy Compliance Check	
	Jiatao Cheng, Yuhong Nan, Xueqiang Wang, Zhefan Chen a	nd Yuliang Zhang
11:25-11:45	Why Biting the Bait? Understanding Bait and Switch UI Dark Patterns in Mobile Apps	
	Yixi Lin, Yue Xu, Zitong Yao, Yuhong Nan, Queping Kong an	nd Xueqiang Wang
11:45-12:05	2:05 <b>DBG-LB: A Trustworthy and Efficient Framework for Data Sharing in the</b> Internet of Vehicles	
	Chaoyue Li, Yongming Zhang and Xiaolong Xu	
12:05-12:25	TetheGAN: A GAN-Based Synthetic Mobile Tethering Framework	Traffic Generating
	Xuman Zhang, Guang Cheng and Li Deng	

Session 3: Tra	ffic Classification	10:45-12:25
Session Chair: A	ntonio Lioy, Politecnico di Torino, Italy	Wednesday, Oct 29, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
10:45-11:05	FCAL: An Asynchronous Federated Contrastive Semi-Supervised Learning Approach for Network Traffic Classification	
	Yu Yan, Qingjun Yuan, Weina Niu, Xiangyu Wang, Yanbei Zl	hu and Yongjuan Wang
11:05-11:25	SPTC: Signature-based Cross-protocol Encrypted Proxy Traffic Classification Approach	
	Huajie Jia, Yige Chen and Zhengzhou Tang	
11:25-11:45	Multi-modal Datagram Representation with Spatial-Models and Inter-flow Contrastive Learning for Encry	•
	Xianwen Deng, Ruijie Zhao, Mingwei Zhan, Shaoqian Wu, Yi	ijun Wang and Zhi Xue
11:45-12:05	FlowGraphNet: Efficient Malicious Traffic Detection v Changsong Yang, Han Wang, Yueling Liu, Yong Ding, Hai Li	•
12:05-12:25	RustGuard: Detecting Rust Data Leak Issues with Co Analysis	ntext-Sensitive Static Taint
	Shanlin Deng, Mingliang Liu, Si Wu and Baojian Hua	

Session 4: Cry	rpto 1	14:00-15:40
Session Chair: N	Man Ho Au, Hong Kong Polytechnic University, China	Wednesday, Oct 29, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
14:00-14:20	Multi-Signer Locally Verifiable Aggregate Signature from (Leveled) Multilinear Maps	
	Yuchen Yang, Jie Chen, Qiaohan Chu, Qiuyan Du and Lupin	g Wang
14:20-14:40	Conditional Attribute-based Encryption with Keyword Search for Pay-Per-Query Commercial Model	
	Zerui Guo, Sha Ma and Qiong Huang	
14:40-15:00	Lightweight Transparent Zero-Knowledge Proofs for Cross-Domain Statements	
	Zhengzhou Tu, Min Xie, Junbin Fang, Yong Yu and Zoe L. Ji	iang
15:00-15:20	Public Verifiable Server-Aided Revocable Attribute-Based Encryption	
	Luqi Huang, Fuchun Guo, Willy Susilo and Yumei Li	
15:20-15:40	New First-Order Secure AES Implementation without Online Fresh Randomness Records	
	Botao Liu and Ming Tang	

Session 5: And	onymity and Privacy 1	14:00-15:40
Session Chair: M	leng Li, Hefei University of Technology, China	Wednesday, Oct 29, 2025
		5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
14:00-14:20	MagWatch: Exposing Privacy Risks in Smartwatches Signals	through Electromagnetic
	Haowen Xu, Tianya Zhao, Xuyu Wang, Jun Dai and Xiaoyan	Sun
14:20-14:40	Privacy-preserving, Secure and Certificate-based Integrity Auditing for Cloud Storage	
	Wenhao Wang, Yu Li, Yinxia Sun, Yuan Zhang and Sheng Zi	hong
14:40-15:00	Unbalanced Private Computation on Set Intersection Computation and Communication	with Reduced
	Zelin Tang, Hua Guo, Yewei Guan and Kaijie Yang	
15:00-15:20	Artemis: Decentralized, Secure, and Efficient Safety Trajectories	Monitoring with Dynamic
	Meng Li, Zhuangwei Li, Yifei Chen, Yan Qiao and Mauro Cor	nti
15:20-15:40	Privacy-preserving Framework for k-modes Clusterin Local Differential Privacy	ng Based on Personalized
	Yuling Luo, Zhangrui Wang, Xue Ouyang, Siyuan Zu, Qiang	Fu, Sheng Qin and Junxiu Liu

Session 6: Sec	urity and Privacy of AI 1	14:00-15:40
Session Chair: Y	uan Zhang, Nanjing University, China	Wednesday, Oct 29, 2025
		3F Ulake/3 楼悠湖厅
Time	Speech Title & Authors	
14:00-14:20	A Dropout-Resilient and Privacy-Preserving Framework via Lightweight Masking Yufeng Jiang, Jianghua Liu, Chenhao Xu, Cong Zuo, Lei Xu a	-
14:20-14:40	AFedGAN: Adaptive Federated Learning with General for Non-IID Data  Xuyang Zhang, Hua Jin and Peiyuan Guo	tive Adversarial Networks
14:40-15:00	OTTER: Optimized Training with Trustworthy Enhance Diffusion and Federated VMUNet for Privacy-Aware National Management (Privacy-Aware National Management (	Medical Segmentation
15:00-15:20	<b>EAGLE: Ensemble Adaptive Graph Learning for Enhar Detection</b> Stephane Richard Befoum, Jianbin Gao, Qi Xia, Victor Komb and Rossini Mulenga Mukupa	
15:20-15:40	CascadeGen: A Hybrid GAN-Diffusion Framework for Protocol-Compliant Synthetic Network Traffic General Qingyuan Yu, Chuping Yan and Xiaoying Liu	

Session 7: Crypto 2		16:10-17:50
Session Chair: Hua Guo, Beihang University, China		Wednesday, Oct 29, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
16:10-16:30	SM2-VBKE: Achieving Cryptographic Binding Betwee Key Generatio Runze Zhao, Siqi Lu, Yongjuan Wang, Liujia Cai, Wenyi Che	
16:30-16:50	Certificate-Based Quasi-Linearly Homomorphic Signatures: Definition, Construction, and Application to Data Integrity Auditing Jintao Cai, Futai Zhang, Wenjie Yang, Shaojun Yang, Yichi Huang, Rongmao Chen and Willy Susilo	
16:50-17:10	Zero-Knowledge Protocols with PVC Security: Striking Security and Efficiency Yi Liu, Yipeng Song, Anjia Yang and Junzuo Lai	ng the Balance between
17:10-17:30	Attribute-Based Adaptor Signature and Application in Control-based Atomic Swap Tianyuan Fan, Gang Shen, Yuzhu Wang, Yuntao Wang and Mingwu Zhang	
17:30-17:50	A Versatile Decentralized Attribute Based Signature Start Dazhi Xu, Yuejun Liu, Jiabei Wang, Yiwen Gao and Yongbin	

Session 8: And	onymity and Privacy 2	16:10-17:50
Session Chair:	Xiaofen Wang, University of Electronic Science and	Wednesday, Oct 29, 2025
Technology of C	China	5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
16:10-16:30	AnoST: An Anonymous Optimistic Verification System Off-Chain State Transition Qiyuan Gao, Qianhong Wu, Junxiang Nong and Qi Liu	n Based on
16:30-16:50	Privacy-Preserving K-hop Shortest Path Query on En Graph Pruning Ya Gao, Chao Mu, Ming Yang and Xiaoming Wu	crypted Graphs Based on
16:50-17:10	TA-PDC: Provable Data Contribution with Traceable A Transactions Xiaocong Lin, Weijing You, Chenchen Wu, Wenmao Liu and	
17:10-17:30	Fine-filter: An Effective Defense against Poisoning At Estimation under LDP	ttacks on Frequency
	Yuxia Zhou, Qiao Xue and Youwen Zhu	
17:30-17:50	BioVite: Efficient and Compact Privacy-Preserving Bi Fully Homomorphic Encryption.	ometric Verification via
	Pengfei Zeng, Han Xia and Mingsheng Wang	

Session 9: Sec	curity and Privacy of AI 2	16:10-17:50
Session Chair: 3	Dianghua Liu, Nanjing University of Science and Technology,	Wednesday, Oct 29, 2025
China		5F Ulake/5 楼悠湖厅
Time	Speech Title & Authors	
16:10-16:30	Efficient Semi-asynchronous Federated Learning with Guided Selective Participation and Adaptive Aggregation	
	Chaoyun Wang, Kedong Yan and Chanying Huang	
16:30-16:50	Improving Byzantine-resilience in Federated Learning via Diverse Aggregation and Adaptive Variance Reduction	
	Xiuhua Wang, Shikang Li, Fengrui Fan, Shuai Wang, Yiwei L	i and Yu Zheng
16:50-17:10	Hierarchical Recovery of Convolutional Neural Netwo	orks via Self-Embedding
	Yawen Huang and Huaicong Zhan	
17:10-17:30	Personalized Federated Learning Algorithm Based or Signature	User Grouping and Group
	Hao Lin, Xiaoming Hu, Shuangjie Bai and Yan Liu	
17:30-17:50	Secure Guard: A Semantic-Based Jailbreak Prompt D Protecting Large Language Models	etection Framework for
	Sixin Fang, Ke Cheng, Jixin Zhang, Zheng Qin and Mingwu Z	Zhang

Session 10: M	achine Learning for Security	10:30-12:10
Session Chair: Weizhi Meng, Lancaster University, UK		Tuesday, Oct 30, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
10:30-10:50	SPCD: A Shot-Based Partial Copy Detection Method Yuhan Tao and Danwei Chen	
10:50-11:10	Bayesian-Adaptive Graph Neural Network for Anomaly Detection (BAGNN). Yong Ding, Chi Zhang, Shijie Tang, Changsong Yang and Hai Liang	
11:10-11:30	<b>UzPhishNet Model for Phishing Detection</b> Bektemir Saydiev, Xiaohui Cui and Umer Zukaib	
11:30-11:50	CyberNER-LLM: Cyber Threat Intelligence Named Entity Recognition With Large Language Model  Xinzheng Liu, Wangqun Lin and Zhaoyun Ding	
11:50-12:10	Provenance-Based Intrusion Detection via Multi-Sca Learning  Xuebo Qiu, Mingqi Lv, Tieming Chen, Tiantian Zhu and Qijie	

Session 11: Sy	stem and Network Security	10:30-12:10
Session Chair:	Sokratis Katsikas, Norwegian University of Science and	Tuesday, Oct 30, 2025
Technology, Nor	way	5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
10:30-10:50	Batch-oriented Element-wise Approximate Activation Neural Networks Peng Zhang, Ao Duan, Xianglu Zou and Dongyan Qiu	n for Privacy Preserving
10:50-11:10	Social-Aware and Quality-Driven Incentives for Mobi Two-Stage Game Jun Tao and Hao Zou	le Crowd-Sensing with
11:10-11:30	A Distributed Privacy Protection Method for Crowd S Evaluation Hai Liu, Maoze Tian, Yadong Peng and Hongye Peng	ensing Based on Trust
11:30-11:50	Actions Speak Louder Than Words: Evidence-Based Trust Level Evaluation in Multi-Agent Systems  Nikolaos Fotos, Koffi Ismael Ouattara, Dimitrios S. Karas, Ioannis Krontiris, Weizhi Meng and Thanassis Giannetsos	
11:50-12:10	Bridging the Interoperability Gaps Among Trusted And Sandro Pinto, Lu´ıs Cunha, Daniel Oliveira, Michele Grisafi, ECTISPO	

Session 12: Vu	Inerability Analysis	10:30-12:10
Session Chair: Tao Guo, Southeast University, China		Tuesday, Oct 30, 2025
		3F Ulack/3 楼悠湖厅
Time	Speech Title & Authors	
10:30-10:50	Towards Efficient C/C++ Vulnerability Impact Assess Management Systems Zibo Wang, Xiangkun Jia, Jia Yan, Yi Yang, Huafeng Huang	-
10:50-11:10	AugGP-VD: A smart contract vulnerability detection approach based on augmented graph convolutional networks and pooling Nianlu Liu, Linlin Zhang, Wenbo Fang and Kai Zhao	
11:10-11:30	VULDA: Source Code Vulnerability Detection via Loca Aggregation on Vulnerability-aware Code Mapping G Tao Peng, Ling Gui, Lijun Cai, Junwei Tang, Aoshuang Ye ar	raph
11:30-11:50	KVT-Payload: Knowledge Graph-Enhanced Hierarchical Vulnerability Traffic Payload Generation Faqi Zhao, Rong Shi, Guoqiao Zhou, Wen Wang and Feng Liu	
11:50-12:10	Construction and Application of Vulnerability Intellig Vulnerability Management Perspective Guangxiang Dai, Peng Wang and Duohe Ma	ence Ontology under

Session 13: Blockchain and Cryptocurrencies 2		10:30-12:10
Session Chair: Yiwei Xu, Southeast University, China		Friday, Oct 31, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
10:30-10:50	Enhancing Private Signing Key Protection in Digital C Using Obfuscation Yang Shi, Jintao Xie, Minyu Teng, Guanxu Liu, Linhai Guo an	,
10:50-11:10	AnsBridge: Towards Secure Cross-Chain Interoperability via Anonymous and Verifiable Validators Mingming Huang, Xiaodan Zhang, Wei Mi, Huimei Liao and Yi Sun	
11:10-11:30	TrustBlink: A zkSNARK-Powered On-Demand Relay for Verification With Low Cost Bohang Wei, Yang Yang, Shihong Xiong, Minghang Li, Qiank	
11:30-11:50	R1-MFSol: a Smart Contract Vulnerability Detection Model Based on LLM and Multi-modal Feature Fusion Huibo Yang, Zhize Hao and Tao Liu	
11:50-12:10	No Place to Hide: An Efficient and Accurate Backdoor Ethereum ERC-20 Smart Contracts Shouchen Zhou, Lu Zhou and Yu Tao	Detection Tool for
11:10-11:30 11:30-11:50	Yang Shi, Jintao Xie, Minyu Teng, Guanxu Liu, Linhai Guo an AnsBridge: Towards Secure Cross-Chain Interoperable Verifiable Validators  Mingming Huang, Xiaodan Zhang, Wei Mi, Huimei Liao and Yorification Huang, Xiaodan Zhang, Wei Mi, Huimei Liao and Yorification With Low Cost  Bohang Wei, Yang Yang, Shihong Xiong, Minghang Li, Qiank R1-MFSol: a Smart Contract Vulnerability Detection Multi-modal Feature Fusion  Huibo Yang, Zhize Hao and Tao Liu  No Place to Hide: An Efficient and Accurate Backdoon Ethereum ERC-20 Smart Contracts	illity via Anonymous and Yi Sun or PoW Cross-Chain nong Wu and Bo Qin Model Based on LLM and

Session 14: Po	st-Quantum Crypto	10:30-12:10
Session Chair: C	hao Sun, Southeast University, China	Friday, Oct 31, 2025
		5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
10:30-10:50	Compact Adaptively Secure Identity-Based Encryption from Middle-Product Learning with Errors	
	Jingjing Fan, Xingye Lu, Man Ho Au and Siu Ming Yiu	
10:50-11:10	Turtle Wins Rabbit Again: Faster Modulus Reduction for RNS-CKKS	
	Lianglin Yan, Pengfei Zeng and Mingsheng Wang	
11:10-11:30	A BGV-subroutinted CKKS Bootstrapping Algorithm without Sine Approximation	
	Jingjing Fan, Chi Zhang, Zejiu Tan, Zoe Lin Jiang, Man Ho Au and Siu Ming Yiu	
11:30-11:50	30-11:50 PolarKyber: Polished Kyber with Smaller Ciphertexts, Greater Security Redundancy, and Lower Decryption Failure Rate	
	Chen An, Ziyao Liu, Xianhui Lu and Jingnan He	
11:50-12:10	1:50-12:10 Lion: A New Ring Signature Construction from Lattice Gadget	
	Yanting Li, Pingbin Luo, Xinjian Chen and Qiong Huang	

Session 15: Attack and Defense 1		10:30-12:10
Session Chair: Yuanmi Chen, East China Normal University, China		Friday, Oct 31, 2025
		3F Ulake/3 楼悠湖厅
Time	Speech Title & Authors	
10:30-10:50	Domain Adaptation for Cross-Device Profiled ML Side Ian Garrett and Ryan Gerdes	e-Channel Attacks
10:50-11:10	Find the Clasp of the Chain: Efficiently Locating Cryptographic Procedures in SoC Secure Boot by Semi-automated Side-Channel Analysis 20 Shipei Qu, Yuxuan Wang, Jintong Yu, Cheng Hong, Chi Zhang and Dawu Gu	
11:10-11:30	Full-phase Distributed Quantum Impossible Differential Cryptanalysis Kun Zhang, Tao Shang, Yuanjing Zhang and Jianwei Liu	
11:30-11:50	ProverNG: Efficient Verification of Compositional Masking for Cryptosystem's Side-Channel Security Yiming Yang, Feng Zhou, Yuanyuan Wang, Hua Chen, Limin Fan and An Wang	
11:50-12:10	SADGA: A Self Attention GAN-Based Adversarial DGA Ability Jiang Luo, Shaohua Qin and Zhe Wang	with High Anti-Detection

Session 16: C	rypto, Steganography and Watermarking	14:00-15:40
Session Chair: `	Yang Shi, Tongji University, China	Friday, Oct 31, 2025
		5F Upark/5 楼悠谷厅
Time	Speech Title & Authors	
14:00-14:20	Cross-Domain Lattice-based DAA Scheme with Shared Private-Key for Internet of Things System  Minzhi Liang, Liquan Chen, Yinghua Jiang, Xuyan Min, Jin Qian and Jun Luo	
14:20-14:40	MDKG: Module-lattice-based Distributed Key Generation Ye Bai, Debiao He, Zhichao Yang, Min Luo and Cong Peng	
14:40-15:00	<b>Towards High-Capacity Provably Secure Steganography via Cascade Sampling</b> Meiyang Lv, Haocheng Fu, Xiaowei Yi, Hongxian Huang, Yun Cao and Changjun Liu	
15:00-15:20	Models in a No-box Setting	
15:20-15:40	Xiaodong Wu, Tianyi Tang, Xiangman Li, Jianbing Ni and Yo Robust Reversible Watermarking for 3D Models Base Zixing Lin, Yaolong Song and Rui Li	-

Session 17: Anomaly Detection		14:00-15:40
Session Chair: Bruno Crispo, University of Trento, Italy		Friday, Oct 31, 2025
		5F Knowledge/5 楼智慧厅
Time	Speech Title & Authors	
14:00-14:20	<b>Speaker Inference Detection Using Only Text</b> Ruoxi Cheng, Yizhong Ding, Shaowei Yuan and Zhiqiang Wa	ang
14:20-14:40	DTGAN: Diverse-Task Generative Adversarial Networks for Intrusion Detection Systems Against Adversarial Examples Yiyang Wang, Wuxia Bai and Kai Chen	
14:40-15:00	ConComFND: Leveraging Content and Comment Info News Detection Huan Zhang, Chanying Huang, Kedong Yan and Shan Xiao	rmation for Enhanced Fake
15:00-15:20	Transferable Adversarial Attacks in Object Detection: Leveraging Ensemble Features and Gradient Variance Minimization  Zhitong Lu, Zhen Xu, Qian Yang and Kai Chen	
15:20-15:40	VAE-BiLSTM: A Hybrid Model for DeFi Anomaly Detection BiLSTM Shujiang Xu, Xiaomin Luo, Lianhai Wang, Miodrag Mihaljevi and Qizheng Wang	-

Session 18: At	tack and Defense 2	14:00-16:00
Session Chair: Jianchang Lai, Southeast University, China		Friday, Oct 31, 2025
		3F Ulake/3 楼悠湖厅
Time	Speech Title & Authors	
14:00-14:20	<b>POWERPOLY: Multilingual Program Analysis with the</b> Zhuochen Jiang and Baojian Hua	e Aid of Web Assembly
14:20-14:40	Not only spatial, but also spectral: Unnoticeable back 3D point clouds	kdoor attack on
	Yongzhen Jiang, Haoran Li, Hongjia Liu, Jiageng Pan and Jia	an Xu
14:40-15:00	Permutation-Based Cryptanalysis of the SCARF Block Randomness Evaluation	c Cipher and Its
	Qi Li, Wenying Zhang and Xiaomeng Sun	
15:00-15:20	Secure and Scalable TLB Partitioning Against Timing	Side-Channel Attacks
	Tianyi Huang, Xiaolin Zhang, Kailun Qin, Boshi Yuan, Chenghao Chen, Yipeng Shi, Chi Zhang and Dawu Gu	
15:20-15:40	15:20-15:40 Security Vulnerabilities in AI-Generated Code: A Large-Scale Analysis of Public	
	GitHub Repositories	
	Maximilian Schreiber and Pascal Tippe	
15:40-16:00	6:00 FluxSketch: A Sketch-based Solution for Long-Term Fluctuating Key Flow	
	Detection	
	Jun Xu, Guoju Gao, Yu-E Sun, He Huang and Yang Du	

# **NOTE**


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