第八届国际物联网攻防国际会议

The 8th International Conference on Attacks and Defenses for Internet-of-Things

ADIoT • 14-16 November 2025

承办单位

江苏理工学院

会议时间：2025 年 11 月 14 日-11 月 16 日

会议地点：明都国际会议中心（常州西太湖）

会务组联系方式：

周元健　手机：18589942150

吴　旭　手机：17751776785

会议联合主席

Weizhi Meng, Lancaster University, United Kingdom

组织委员会

General Chair

Zhengjun Jing, Jiangsu University of Technology, China

Guomin Yang, Singapore Management University, Singapore

Qiong Huang, Guangdong University of Finance, China

Program Chair

Weizhi Meng, Lancaster University, United Kingdom

Moti Yung, Google and Columbia University, USA

Georgios Kambourakis, University of the Aegean, Greece

Publicity Chair

Yuanjian Zhou, Jiangsu University of Technology, China

Wenjuan Li, The Education University of Hong Kong, China

Zhuotao Lian, Hiroshima University, Japan

Publication Chair

Quanyu Zhao, Jiangsu University of Technology, China

Yan Zhang, Jiangsu University of Technology, China

Wei-Yang Chiu, National Yang Ming Chiao Tung University

Local Chair

Xu Wu, Jiangsu University of Technology, China

Chi Zhang, Jiangsu University of Technology, China

Program Committee

Jiangsu University of Technology, China

Lancaster University, UK

SPTAGE Lab

Conference Schedule

November 14, 2025	Friday	**Mingdu International Conference Center**
08:00-18:00	Registration and Arrival	
November 15, 2025	Saturday	**Mingdu International Conference Center**
08:30-09:00	Welcome General/Program Chairs	
Session 1: Keynote Speak Session Chair: Weizhi Meng		
09:00-09:40	Artificial Intelligence for Network Security: Today and Tomorrow	Shui Yu
09:40-10:20	Federated Learning: Security and Privacy Attacks and Possible Solutions	Saru Kumari
10:20-10:40	Tea Break	
Session 2: Fundamental Security and Trust Mechanisms for IoT Session Chair: Zhengjun Jing		
10:40-10:55	Efficient and Trusted Authentication Scheme for Devices Supply Chain Based on Transitive Signature and Merkle Tree	Zhen Zhang, Chunsheng Gu, Yan Zhang, Peizhong Shi, Zhengjun Jing
10:55-11:10	Real-time Feedback-based Dynamic Reputation Assessment Protocol	Xiaosong Guan, Jiahe Chen, Jianbo Shen, Juhao Wang, Jiuru Wang
11:10-11:25	A Privacy-Preserving Step-size Collection Against Poisoning Attacks for Federated Learning in IoT	Jingcheng Song, Juhao Wang, Xiaosong Guan, Jingyao Hu
11:25-11:40	PBFT Consensus Optimization Algorithm for Dynamic Reputation and Clustering of Industrial Internet of Things	Chenlong Zhang
11:40-14:00	Lunch Break	

Session 3： Resilient Networking and Collaborative Intelligent Defense Session Chair: Yan Zhang		
14:00 - 14:15	CoRt: Cooperative Cross-Layer Routing for UAV Networks against Jamming Attacks	Xiangxi Meng, Xiaojun Zhu, Daolong Wu, Nan Qi, Chao Dong
14:15- 14:30	Trajectory-Aware Routing for UAV Networks Traversing Multiple Jamming Regions	Peiyao Wu, Xiaojun Zhu, Siyue Zheng, Daolong Wu, Nan Qi
14:30 - 14:45	Research on Security Control in Data Circulation and Utilization: A Case Study of Trustworthy Data Space Constructior	Junyu Li1, Mingrong Xiang, Yining Liu
14:45 - 15:00	Research on Emergency Response Attack Scenario Reconstruction Method Based on Steiner Trees	Manyuan Hua, Fenghua Xu, Yukun Zhu, Feng Yang, Yanping Wang
15:00 - 15:20	Tea Break	
Session 4: Data Intelligence and Automation Engines Session Chair: Quanyu Zhao		
15:20 - 15:35	An Unsupervised Anomaly Detection Method for Traceability Graphs Based on Masked Autoencoders	Jiahao Xu, Fenghua Xu, Yukun Zhu, Chao Sun, Jieliang Zheng
15:35 - 15:50	Zero-Shot Low-Light Image Enhancement	Jingkang Yang, Junfeng Liu
15:50 - 16:05	Management scheme for secure shared services in Machine-as-a-Service mode	Zhengjun Jin, Pengbo Qi, Tianci Zhao , Yuanjian Zhou, Jie Yu, Hanwen Qin
16:05 - 16:20	LVG-Net: Semi-Supervised Forecasting of Non-Stationary Time Series	Changxin Gao, Fengjin Chu, Jie Li, Xiaosong Guan, Juhao Wang, Jiuru Wang
16:20 - 16:35	RACE: Towards Automatic eBPF Program Synthesis via Retrieval - Augmented Generation and Chain-of-Thought Reasoning	Chaojun Huang
16:35 - 17:00	Closing Remarks	General/Program Chairs

ADIoT 2025

特邀报告专家：

Shui Yu 是澳大利亚悉尼科技大学计算机科学学院的教授。他是悉尼科技大学研究委员会的副主席。他的研究兴趣包括数学人工智能、网络安全、网络科学和大数据。他出版了七本专著，编辑了两本书，在不同场合发表了 650 多篇技术论文。他目前的 h 指数是 86。余教授自 2013 年起推动大数据网络化的研究领域，其研究成果已被亚马逊云安全等工业系统广泛采用。他目前在 IEEE 通信综述与教程（领域编辑）、IEEE 认知通信和网络交易以及 IEEE 可靠和安全计算交易的编辑委员会任职。他是 IEEE 计算机学会的杰出访客，也是 IEEE 通信学会理事会的当选成员。他是 ACM 和 AAAS 的成员，IEEE 的院士。

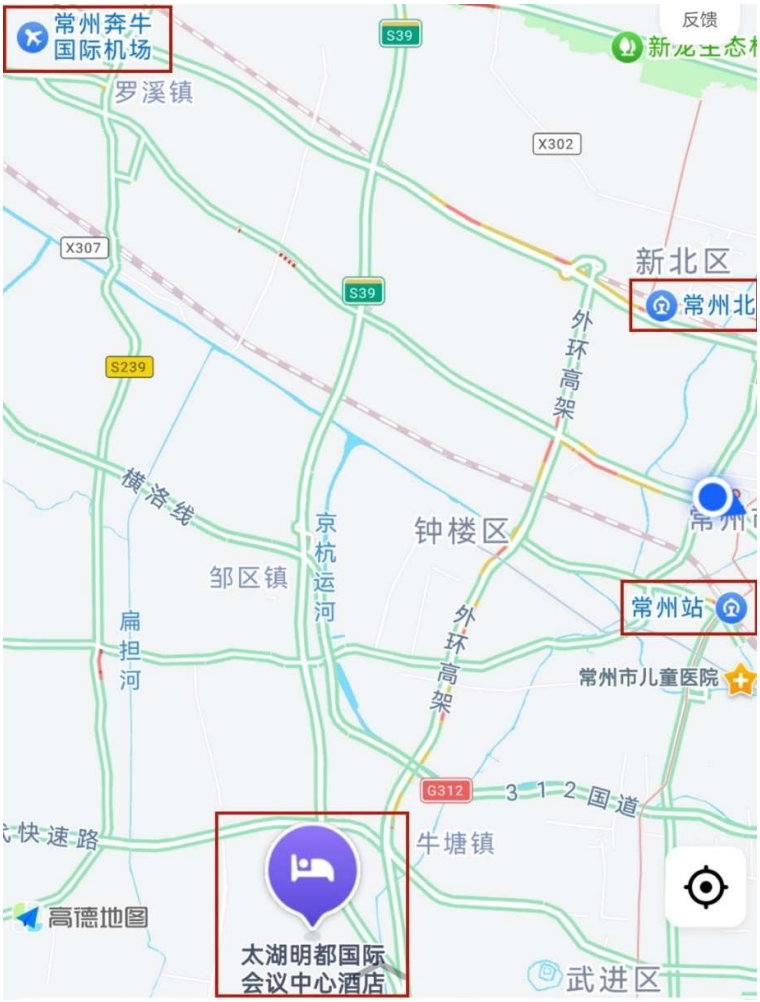
Shui Yu is a Professor of School of Computer Science, University of Technology Sydney, Australia. He is the Deputy Chair of the Research Committee of University of Technology Sydney. His research interest includes Mathematical AI, Cybersecurity, Network Science, and Big Data. He has published seven monographs and edited two books, more than 650 technical papers at different venues. His current h-index is 86. Professor Yu promoted the research field of networking for big data since 2013, and his research outputs have been widely adopted by industrial systems, such as Amazon cloud security. He is currently serving the editorial boards of IEEE Communications Surveys and Tutorials (Area Editor), IEEE Transactions on Cognitive Communications and Networking, and IEEE Transactions on Dependable and Secure Computing. He is a Distinguished Visitor of IEEE Computer Society, and an elected member of the Board of Governors of IEEE Communications Society. He is a member of ACM and AAAS, and a Fellow of IEEE.

EISA 2024

Saru Kumari 博士（SM IEEE）是印度北方邦密鲁特 Chaudhary Charan Singh 大学数学系的副教授。2012 年，她在印度北卡罗来纳州密拉特市 Chaudhary Charan Singh 大学获得数学博士学位。她是 Clarivate Analytics 颁发的 2023 年印度研究卓越引文奖女性研究奖的获得者。她在知名国际期刊和会议上发表了 380 多篇研究论文，其中包括在 IEEE TDSC、IEEE TII、IEEE JBHI、IEEE T-ITS、IEEE TCSS、IEEE TCE、IEEE TGCN、IEEE IoTJ、Information Fusion、ACM TOIT、ACM TOMM 等各种 SCIE 索引期刊上发表的 330 多篇研究文章。2020 年，她获得了爱思唯尔《网络与计算机应用杂志》颁发的最佳论文奖；2022 年《IEEE 消费电子杂志》和 2022 年《车载通信》。她是 IEEE T-ITS 的高级编辑。她是 IEEE、爱思唯尔、施普林格、威利等十几家国际知名期刊的编辑委员会成员，其中包括 SCI 和 SCIE 期刊，如 IEEE 智能交通系统学报（SCIE）；IEEE 系统杂志（SCIE）等。她完成了一些研究项目：一个是合作项目，作为外国专家，25 万元人民币，由中国科学技术部支持；一名首席研究员，60 万印度卢比，由印度新德里大学教育资助委员会（UGC）资助；一名首席研究员，印度北方邦政府支持的研发计划，19.8 万印度卢比。她曾担任 IEEE、Elsevier、Springer 和 Wiley 旗下 SCIE 期刊的许多特刊的客座编辑。她曾以技术项目委员会（TPC）成员或 PC 主席的身份参与研究界，参加了十几次享有盛誉的国际会议。她也是数十种知名期刊的审稿人，包括 IEEE、爱思唯尔、施普林格、威利、泰勒和弗朗西斯等 SCI 索引期刊。她的研究兴趣包括应用密码学、信息安全、物联网、信息融合、区块链技术、安全和人工智能。

Dr Saru Kumari (SM IEEE) is an Associate Professor with the Department of Mathematics, Chaudhary Charan Singh University, Meerut, Uttar Pradesh, India. She received her PhD in Mathematics in 2012 from Chaudhary Charan Singh University, Meerut, UP, India. She is the recipient of the India Research Excellence-Citation Award-Women in Research-2023 by Clarivate Analytics. She has published more than 380 research papers in reputed international journals and conferences, including more than 330 research papers in various SCIE-indexed journals such as IEEE TDSC, IEEE TII, IEEE JBHI, IEEE T-ITS, IEEE TCSS, IEEE TCE, IEEE TGCN, IEEE IoTJ, Information Fusion, ACM TOIT, ACM TOMM, etc. She is a Senior Editor in IEEE T-ITS. She is on the editorial board of more than a dozen International Journals of high repute, under IEEE, Elsevier, Springer, Wiley, and others including SCI and SCIE journals. She has completed some research projects: one in collaboration, as foreign expert, 0.25 million RMB Yuan, supported by Ministry of Science and Technology, China; One as Principal Investigator, 0.6 million INR, supported by University Grants Commission (UGC), New Delhi, India; One as Principal Investigator, 0.198 million INR, Research and Development Scheme, supported by Uttar Pradesh Government, India. She has served as the Guest Editor of many special issues in SCIE Journals under IEEE, Elsevier, Springer, and Wiley. She has been involved in the research community as a Technical Program Committee (TPC) member or PC chair for more than a dozen international conferences of high repute. She is also a reviewer of dozens of reputed Journals, including SCI-Indexed Journals, under IEEE, Elsevier, Springer, Wiley, Taylor & Francis, etc. Her research interests include Applied Cryptography, Information Security, Internet of Things, Information Fusion, Blockchain Technology, Sec

交通信息：



1. 到达常州奔牛国际机场
线路一：乘坐机场大巴到常州汽车总站（26 元），乘坐地铁 1 号线到延政大道站下车（南夏墅方向，10 站），打车至太湖明都国际会议中心酒店（约 20-30 元）。
线路二：打车至至太湖明都国际会议中心酒店（约 70-100 元）。

2. 到达常州北站
线路一：乘坐地铁 1 号线到延政大道站下车（南夏墅方向，19 站），打车至太湖明都国际会议中心酒店（约 20-30 元）。
线路二：打车至至太湖明都国际会议中心酒店（约 45-70 元）。

3. 到达常州站
线路一：乘坐地铁 1 号线到延政大道站下车（南夏墅方向，10 站），打车至太湖明都国际会议中心酒店（约 20-30 元）。
线路二：打车至至太湖明都国际会议中心酒店（约 35-60 元）。