# **IEEE Annual Congress on Artificial Intelligence of Things**

**(IEEE AIoT 2024)** 

24-26 July 2024 (Melbourne Time)

# **Conference Program and Information Booklet**

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# **Advanced Program Summary (Melbourne Time)**

24 July 2024 (Wednesday)		
09:00-09:05	Welcome speech (Robert Pike, Provost and Senior Vice President of La Trobe University)	
09:05-09:20	Opening Ceremony	
09:20-10:20	Keynote Speech 1	
10:20-10:30	Coffee Break	
10:30-12:10	AloT-1: AloT Network (1)	
12:10-13:00	Break	
13:00-15:05	AloT-2: Systems & Hardware	
15:05-15:30	Coffee Break	
15:30-17:30	AloT-3: [Short Paper] AloT Applications-S	
25 July 2024 (Thursday)		
09:00-10:00	Keynote Speech 2	
10:00-10:30	Coffee Break	
10:30-12:10	AloT-4: AloT Security	
12:10-13:00	Break	
13:00-15:05	AloT-5: Invited Papers	
15:05-15:30	Coffee Break	
15:30-17:35	AloT-6: Health and Medical Applications	
18:30-20:30	Banquet	
26 July 2024 (Friday)		
09:00-10:00	AloT-7: [Short Paper] AloT Systems-S	
10:00-10:30	Posters Session & Coffee Break	
10:30-12:10	AloT-8: AloT Network (2)	
12:10-13:00	Break	
13:00-15:05	AloT-9: AloT Applications	
15:05-15:30	Coffee Break	
15:30-16:20	AloT-10: AloT with Blockchain	
16:20-16:30	Closing	

**Conference Room**: La Trobe University City Campus Level 2, Room 2.10+2.11

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Session Chair: Wei Xiang, La Trobe University, Australia

#### Keynote Speech 1

## Wireless Sensing of 3D Human Poses: Design, Generalization, and Data Augmentation

Prof. Shiwen Mao

Auburn University, USA

#### **Abstract**

In recent years, 3D human activity recognition (HAR) has become an important topic in human-computer interaction (HCI). To preserve the privacy of users, there is considerable interest in techniques without using a video camera. To this end, RFID tags, as a low-cost wearable sensor, provide an effective solution for 3D human pose tracking. In this talk, we first present RFID-Pose, a vision-aided realtime 3D human pose estimation system based on deep learning. The system estimates the spatial rotation angle of each human limb, and utilizes the rotation angles to reconstruct human pose in realtime with the forward kinematic technique. The second part of this talk addresses the generalization problem. We present a technology-agnostic approach for RF-based human activity recognition (HAR), termed TARF, which generalizes a trained model to different RF sensing technologies in different frequency bands. With TARF, the cost and the barrier of wide deployment can both be greatly reduced, and more robust performance can be achieved by utilizing the complementary RF sensory data. Finally, in order to mitigate the cost of collecting training data, we propose data augmentation methods based on Generative Adversarial Network (GAN) and diffusion models, to generate synthesized RFID data. Our experiments demonstrate that the synthesized data is useful for training the RFID-Pose model to achieve high pose estimation performance.

#### **Biography**



Shiwen Mao is a Professor and Earle C. Williams Eminent Scholar, and Director of the Wireless Engineering Research and Education Center at Auburn University. Dr. Mao's research interest includes wireless networks, multimedia communications, and smart grid. He received the IEEE ComSoc MMTC Outstanding Researcher Award in 2023, the 2023 SEC Faculty Achievement Award for Auburn, the IEEE ComSoc TC-CSR Distinguished Technical Achievement Award in 2019, the Auburn University Creative Research & Scholarship Award in 2018, the NSF CAREER Award in 2010, and several service awards from IEEE ComSoc. He is a co-recipient of the 2022 Best Journal Paper Award of IEEE ComSoc eHealth Technical Committee, the 2021 Best Paper Award of Elsevier/KeAi Digital Communications and Networks Journal, the 2021 IEEE Internet of Things Journal Best Paper

Award, the 2021 IEEE Communications Society Outstanding Paper Award, the IEEE Vehicular Technology Society 2020 Jack Neubauer Memorial Award, the 2018 Best Journal Paper Award and the 2017 Best Conference Paper Award from IEEE ComSoc MMTC, the 2004 IEEE Communications Society Leonard G. Abraham Prize in the Field of Communications Systems, and 10 IEEE best conference paper/demo awards. He is the Editor-in-Chief of IEEE Transactions on Cognitive Communications and Networking, the Technical Committee Board Director of IEEE Communications Society, and the Vice President of Technical Activities of IEEE Council of RFID. He was the General Chair of IEEE INFOCOM 2022, a TPC Chair of IEEE INFOCOM 2018, and a TPC Vice-Chair of IEEE GLOBECOM 2022. He is a Fellow of the IEEE.

Session Chair: Wei Xiang, La Trobe University, Australia

#### Keynote Speech 2

#### **Resource-Efficient and Secure Automated Vehicle Platoons**

Prof. Qing-Long Han
Swinburne University of Technology, Australia

#### **Abstract**

Vehicle platooning has been regarded as a promising intelligent transportation system technology for achieving cooperative automated driving systems and automated highway systems due to its promising benefits, including improved road safety, highway capacity and traffic congestion relief, and reduced fuel consumption. Two critical challenges of accomplishing automated vehicle platoons are: 1) to deal with the intermittent and sporadic vehicle-to-vehicle data transmissions caused by limited wireless communication resources; and 2) to tackle the malicious cyber-attacks on the vehicle-to-vehicle communication channels.

The essentials of evolutionary platooning control technologies are first introduced for connected automated vehicles. After a brief historical background of connected automated vehicles and vehicle platooning, several key issues in the design and implementation of an automated vehicle platooning control system are elaborated. An emphasis is then placed on two emerging platooning control techniques: resource-efficient vehicle platooning and secure vehicle platooning. Furthermore, simulation and validation results under these two control techniques are presented. Finally, some challenging issues and concluding remarks are drawn.

#### **Biography**



Professor Han is Pro Vice-Chancellor (Research Quality) and a Distinguished Professor at Swinburne University of Technology, Melbourne, Australia. He held various academic and management positions at Griffith University and Central Queensland University, Australia.

Professor Han was awarded the 2021 Norbert Wiener Award (the Highest Award in systems science and engineering, and cybernetics), the 2021 M. A. Sargent Medal (the Highest Award of the Electrical College Board of Engineers Australia), the IEEE Systems, Man, and Cybernetics Society Andrew P. Sage Best Transactions Paper Award in 2022, 2020, and 2019, respectively, the IEEE/CAA Journal of Automatica Sinica Norbert Wiener Review Award in 2021, and the IEEE Transactions on Industrial Informatics Outstanding Paper Award in 2020.

Professor Han is a Member of the Academia Europaea (The Academy of Europe). He is a Fellow of the Institute of Electrical and Electronic Engineers (FIEEE), a Fellow of the International Federation of Automatic Control (FIFAC), an Honorary Fellow of the Institution of Engineers Australia (HonFIEAust), and a Fellow of the Chinese Association of Automation (FCAA). He is a Highly Cited Researcher in both Engineering and Computer Science (Clarivate). He was one of Australia's Top 5 Lifetime Achievers (Research Superstars) in the discipline area of Engineering and Computer Science Engineering and Computer Science (The Australian's Research Magazine, 2019-2020). He has served as an AdCom Member of IEEE Industrial Electronics Society (IES), a Member of IEEE IES Fellows Committee, a Member of IEEE IES Publications Committee, Chair of IEEE IES Technical Committee on Network-Based Control Systems and Applications, and the Co-Editor-in-Chief of IEEE Transactions on Industrial Informatics. He is currently the Editor-in-Chief of IEEE/CAA Journal of Automatica Sinica and the Co-Editor of Australian Journal of Electrical and Electronic Engineering.

# Main Conference Day 1 (Melbourne Time)

## Wednesday, 24 July 2024

Wednesday, 24 July 2024 | 09:00 – 09:20 (Melbourne Time)

#### **Opening Ceremony**

Session Chair: Wei Xiang, La Trobe University, Australia

Wednesday, 24 July 2024 | 09:20 – 10:20 (Melbourne Time)

### Keynote Speech: Wireless Sensing of 3D Human Poses: Design, Generalization, and Data Augmentation

- Prof. Shiwen Mao (Auburn University, USA)

Session Chair: Wei Xiang, La Trobe University, Australia

Wednesday, 24 July 2024 | 10:30 – 12:10 (Melbourne Time)

## Session AloT-1: AloT Network (1)

Session Chair: Haesik Kim, VTT, Finland

# Deep Reinforcement Learning-Empowered Federated Learning for Wireless Clients with Energy and Bandwidth Constraints

Sili Wu (The University of Sydney, Australia), Sheng Shen (The University of Sydney, Australia), Phee Lep Yeoh (University of the Sunshine Coast, Australia), Teng Joon Lim (The University of Sydney, Australia)

#### Dynamic Data Indication: Designing Service-Based PHR Frames for UWB Systems

Zhifan Ye (Tsinghua University, China), Yapeng Gao (Tsinghua University, China), Liuguo Yin (Tsinghua University, China)

#### Research on State-Based Bluetooth Multi-Protocol Fuzzing

Benyan Hou (Xidian University, China), Chenglong Huang (Xidian University, China), Ting Yang (Xidian University, China), Gaofei Wu (Xidian University, China), He Wang (Xidian University, China), Yuqing Zhang (University of Chinese Academy of Sciences, China)

# A Hybrid Frequency Offset Estimation Combining Data-Driven Method and Model-Driven Method for 6G OFDMA Systems

Haesik Kim (VTT Technical Research Centre of Finland, Finland)

Wednesday, 24 July 2024 | 13:00 – 15:05 (Melbourne Time)

#### Session AloT-2: Systems & Hardware

Session Chair: Chao Qian, University of Duisburg-Essen, Germany

#### Kubernetes Enhanced Stateful Service Migration for ML-Driven Applications in Industry 4.0 Scenarios

Paolo Bellavista (University of Bologna, Italy), Simon Dahdal (University of Ferrara, Italy), Luca Foschini (University of Bologna, Italy), Davide Tazzioli (University of Bologna, Italy), Mauro Tortonesi (University of Ferrara, Italy), Riccardo Venanzi (University of Bologna, Italy)

#### **Model Sharing Mechanisms For Distributed Learning**

Sisui Ngoh (Singapore University of Technology and Design, Singapore), Hongbo Li (Singapore University of Technology and Design, Singapore), Lingjie Duan (Singapore University of Technology and Design, Singapore)

#### Integer-only Quantized Transformers for Embedded FPGA-based Time-series Forecasting in AloT

Tianheng Ling (Singapore University of Technology and Design, Singapore), Chao Qian (Singapore University of Technology and Design, Singapore), Gregor Schiele (University of Duisburg-Essen, Germany)

#### BatSort: Enhanced Battery Classification with Transfer Learning for Battery Sorting and Recycling

Yunyi Zhao (Singapore Institute of Technology (SIT), Singapore), Zhang Wei (Singapore Institute of Technology (SIT), Singapore), Erhai Hu (Nanyang Technological University, Singapore), Qingyu Yan (Nanyang Technological University, Singapore), Cheng Xiang (National University of Singapore, Singapore), King Jet Tseng (Singapore Institute of Technology (SIT), Singapore), Dusit Niyato (Nanyang Technological University, Singapore)

#### Gossip Learning in Edge-Retentive Time-Varying Random Graphs with Node Churn

Mina Aghaei Dinani (HES SO, Switzerland), Antonio Di Maio (University of Bern, Switzerland), Gianluca Rizzo (HES SO Valais and Universita' di Foggia, Italy)

Wednesday, 24 July 2024 | 15:30 – 17:30 (Melbourne Time)

#### Session AloT-3: [Short Paper] AloT Applications-S

Session Chair: Lei Chen, Georgia Southern University, USA

### **Trustworthy Hierarchical Federated Learning for Digital Healthcare**

Sarhad Arisdakessian (Polytechnique Montréal, Canada), Omar Abdel Wahab (Polytechnique Montréal, Canada), Osama Wehbi (Polytechnique Montréal, Canada), Azzam Mourad (Lebanese American University, Lebanon), Hadi Otrok (Khalifa University, UAE)

#### Enhancing Quadrotor Tracking with Unknown and Variable Payloads Using Adaptive Sliding Mode Techniques

Khaled Telli (University Mohamed Khider Biskra, Algeria), Okba Kraa (University Mohamed Khider Biskra, Algeria), Yassine Himeur (University of Dubai, UAE), Shadi Atalla (University of Dubai, UAE), Wathiq Mansoor (University of Dubai, UAE)

#### **Facial Expression Recognition Using Deep Convolution Neural Networks**

Mohammed Almulla (Kuwait University, Kuwait)

#### **Integrating IoT into Sustainability Curricula**

Robert Frencham, Robert Ross, and Richard Hall (La Trobe University, Australia)

#### Sustainable ecosystem with AloT and Blockchain

Hiroshi Watanabe (National Yang Ming Chiao Tung University, Taiwan), Atsuhiro Kinoshita (Fixstars, Japan), Shu Torisawa (Beyond Blockchain, Japan)

#### Model-Independent Approach For Long-Tail Object Detection In Aerial Imagery

Halar Haleem (University of Plymouth, UK), Igor Bisio (University of Plymouth, UK), Chiara Garibotto (University of Plymouth, UK), Fabio Lavagetto (University of Plymouth, UK), Andrea Sciarrone (University of Plymouth, UK)

# Main Conference Day 2 (Time zone: Melbourne Time)

# Thursday, 25 July 2024

Thursday, 25 July 2024 | 09:00 – 10:00 (Melbourne Time)

## **Keynote Speech 2: Resource-Efficient and Secure Automated Vehicle Platoons**

- Prof. Qing-Long Han (Swinburne University of Technology, Australia)

Session Chair: Wei Xiang, La Trobe University, Australia

Thursday, 25 July 2024 | 10:30 – 12:10 (Melbourne Time)

## **Session AloT-4: AloT Security**

Session Chair: Vadiraja Acharya, PES University, Bengaluru, India

#### Recruiting Trustworthy Crowdtesters in AIoT: A Cheat-Proof and Budget-Feasible Mechanism

Yuntao Wang (Xi'an Jiaotong University, China), Qichao Xu (Shanghai University, China), Shaolong Guo (Xi'an Jiaotong University, China), Zhou Su (Xi'an Jiaotong University, China), Yiliang Liu (Xi'an Jiaotong University, China)

# Empirical Distribution Ranking based Decision Tree Algorithm for building Intrusion Detection System in the Internet of Medical Things

Laura Tileutay (Ajou University, South Korea), Jisi Chandroth (Ajou University, South Korea), Keun-Woo Lim (Institut Polytechnique de Paris, France), Young-Bae Ko (Ajou University, South Korea), Byeong-Hee Roh (Ajou University, South Korea)

#### FedNav: A Federated Learning Approach for Secure AloT-enabled Inertial Odometry

Omer Tariq (Korea Advanced Institute of Science and Technology, South Korea), Muhammad Bilal (Lancaster University, UK), Dongsoo Han (Korea Advanced Institute of Science and Technology, South Korea)

#### Design and Implementation of Vulnerability Platform Based on Knowledge Graph

Zaiqi Huang (Xidian University, China), Yujie Chen (Xidian University, China), Xudong Cao (University of Chinese Academy of Sciences, China), Xuejun Li (Xidian University, China), Yuqing Zhang (University of Chinese Academy of Sciences, China)

Thursday, 25 July 2024 | 13:00 – 15:05 (Melbourne Time)

## **Session AloT-5: Invited Papers**

Session Chair: Seng Loke, Deakin University, Australia

#### Disaggregated Computing Access Network using Newly Structured Hollow-Core fiber for AIoT Platform

Naoaki Yamanaka (Keio University, Japan), Takahiro Ishiyama (Keio University, Japan), Satoru Okamoto (Keio University, Japan), Hiroyuki Tsuda (Keio University, Japan), Kazunori Mukasa (Keio University, Japan)

#### Domain Generalization for Time-Series Forecasting via Extended Domain-Invariant Representations

Yunchuan Shi (University of Sydney, Australia), Wei Li (University of Sydney, Australia), Albert Zomaya (University of Sydney, Australia)

### Navigating Uncertainty: Ambiguity Quantification in Fingerprinting-based Indoor Localization

Junwei Ma, Xiangyu Wang (Auburn University, USA), Jian Zhang (Kennesaw State University, USA), Shiwen Mao, Senthilkumar Cg Periaswamy, and Justin Patton (Auburn University, USA)

# Opportunities and Challenges of Urban Agetech: from an Automated City to an Ageing-Friendly City Seng W. Loke (Deakin University, Australia)

A Privacy-Preserving Federated Learning Framework for IoT Environment Based on Secure Multi-party Computation Tieming Geng (University of South Carolina, USA), Jian Liu (University of South Carolina, USA), Chin-Tser Huang (University of South Carolina, USA)

### Thursday, 25 July 2024 | 15:30 – 17:35 (Melbourne Time)

#### **Session AloT-6: Health and Medical Applications**

Session Chair: Chun-Hung Lee, Taoyaun Psychiatric Center, Taiwan

Decomposition and Correlation Analysis of Daily Time Series Data for New COVID-19 Cases in the Kansai Region of Japan Hideo Noda (Tokyo University of Science, Japan), Koki Kyo (Gifu Shotoku Gakuen University, Japan)

#### Deep Learning for Blood Cells Classification Based on Multispectral Imaging for Improved Accuracy

Thiha Aung (School of Engineering, RMIT University, Australia), James Brady (School of Engineering, RMIT University, Australia), Tetiana Hourani (Department of Medicine, The University of Melbourne, Australia), Aaron Elbourne (School of Engineering, RMIT University, Australia), Sumeet Walia (School of Engineering, RMIT University, Australia), Akram Hourani (School of Engineering, RMIT University, Australia)

#### Sleep Monitoring Systems based on Edge Computing and Microservices Caching

Nico Surantha (University of Pelita Harapan, Indonesia), David Jayaatmaja (University of Pelita Harapan, Indonesia), Sani Muhamad Isa (University of Pelita Harapan, Indonesia)

### Multi-MedChain: Multi-Party Multi-Blockchain Medical Supply Chain Management System

Akanksha Saini (School of AISCC, RMIT University, Australia), Arash Shaghaghi (School of Computer Science and Engineering, UNSW, Australia), Zhibo Huang (School of Computer Science and Engineering, UNSW, Australia), Salil Kanhere (School of Computer Science and Engineering, UNSW, Australia)

#### Vision-Based Gait Analysis for the Detection of Drug-Induced Parkinsonism (DIP)

Chun Hung Lee (National Yang Ming Chiao Tung University, Taiwan), Andrew An-Zhe Lee (National Yang Ming Chiao Tung University, Taiwan), Yu-Hsin Liu (National Yang Ming Chiao Tung University, Taiwan), Guan-Hsiung Liaw (National Yang Ming Chiao Tung University, Taiwan), Wu-Chuan Yang (National Yang Ming Chiao Tung University, Taiwan)

# Main Conference Day 3 (Time zone: Melbourne Time)

# Friday, 26 July 2024

Friday, 26 July 2024 | 09:00 – 10:00 (Melbourne Time)

#### Session AloT-7: [Short Paper] AloT Systems-S

Session Chair: Chao Qian, University of Duisburg-Essen, Germany

# A Hybrid Convolutional Neural Networks and Logistic Regression Framework for Robust Cyber Attack Detection in Artificial Intelligence of Things (AIoT)

Brij B. Gupta (Asia University, Taiwan), Akshat Gaurav (Ronin Institute, USA), Varsha Arya (Asia University, Taiwan), Kwok Tai Chui (Hong Kong Metropolitan University (HKMU), Hong Kong)

# An Analysis of Cybersecurity Mandates in the Context of Digital Reliance within Hybrid IT Models

Mohammed Saleh (Higher Colleges of Technology, UAE)

#### Intelligent tool cabinet management system integrating AI technology and IoTtechnology

Ting Liu (Xidian University, China), Hang Ju (Xidian University, China), Ting Liu (Xidian University, China)

Wednesday, 24 July 2024 | 10:00 – 10:30 (Melbourne Time)

#### **Poster Session**

Session Chair: Nico Surantha, Tokyo City University, Japan

## Ethical Guidelines and Future Directions for AloT in Healthcare: A Comparative Study of EU and Taiwan

Chun Hung Lee (National Yang Ming Chiao Tung University, Taiwan), Andrew An-Zhe Lee (National Yang Ming Chiao Tung University, Taiwan), Yu-Hsin Liu (National Yang Ming Chiao Tung University, Taiwan), Guan-Hsiung Liaw (National Yang Ming Chiao Tung University, Taiwan), Wu-Chuan Yang (National Yang Ming Chiao Tung University, Taiwan)

#### Towards Auto-Building of Embedded FPGA-based Soft Sensors for Wastewater Flow Estimation

Tianheng Ling (Singapore University of Technology and Design, Singapore), Chao Qian (Singapore University of Technology and Design, Singapore), Gregor Schiele (University of Duisburg-Essen, Germany)

Friday, 26 July 2024 | 10:30 – 12:10 (Melbourne Time)

#### Session AloT-8: AloT Network (2)

Session Chair: Rohit Chaudhary, Chandigarh University, India

#### **UAV-assisted Intelligent IoT Service Provisioning in Infrastructure-less Environments**

Qiushi Zheng (Swinburne University of Technology, Australia), Zhishu Shen (Wuhan University of Technology, China), Jiong Jin (Swinburne University of Technology, Australia), Zheng Lei (Swinburne University of Technology, Australia), Tommy Cheung (Swinburne University of Technology, Australia), Wei Xiang (La Trobe University, Australia)

# Application Placement via Actor-Coordinator-Critic Embedded Harris Hawks Optimization in Dynamic SAGIN Environments

Nasrin Akhter (Swinburne University of Technology, Australia), Jiong Jin (Swinburne University of Technology, Australia), Redowan Mahmud (Curtin University, Australia), Jason But (Swinburne University of Technology, Australia), Longxiang Gao (Qilu University of Technology, China), Yong Xiang (Deakin University, Australia)

#### **Semantic Communication Networks Empowered Artificial Intelligence of Things**

Yuntao Wang (Xi'an Jiaotong University, China)

#### **Intelligent Edge Caching for Metaverse Applications Based on Grover Search**

Guoquan Wu (State Key Laboratory of Public Big Data at Guizhou University, China and Southern University of Science and Technology, China), Jianhang Tang (Guizhou University, China), Yang Zhang (Nanjing University of Aeronautics and Astronautics, China), Bo Wang (Singapore University of Technology and Design, Singapore), Wenchao Jiang (Singapore University of Technology and Design, Singapore), Yixiong Feng (Guizhou University, China)

Friday, 26 July 2024 | 13:00 – 15:05 (Melbourne Time)

#### **Session AloT-9: AloT Applications**

Session Chair: Wei Zhang, Singapore Institute of Technology, Singapore

#### An Effective Vehicle Trajectory Restoration Based on Multi-Camera Tracking

Wei-Chieh Wang (National Sun Yat-sen University, Taiwan), Yung-Hao Shiau (National Sun Yat-sen University, Taiwan), Chun-Wei Tsai (National Sun Yat-sen University, Taiwan)

#### Demystify Adult Learning: A Social Network and Large Language Model Assisted Approach

Fang Liu (Singapore University of Social Sciences, Singapore), Bosheng Ding (Nanyang Technological University, Singapore), Chong Guan (Singapore University of Social Sciences, Singapore), Wei Zhang (Singapore Institute of Technology (SIT), Singapore), Dusit Niyato (Nanyang Technological University, Singapore), Justina Tan (Singapore University of Social Sciences, Singapore)

#### **Low-Resolution Image Enhancement using Generative Adversarial Networks**

Melvin Ajuluchukwu (Federal University of Technology Owerri, Nigeria), Atef Shalan (The American University in Cairo, Egypt), Lei Chen (University of Houston, USA), Yiming Ji (University of Houston, USA), Emmanuel Balogun (Federal University of Technology Owerri, Nigeria)

#### Pump Cavitation Detection with Machine Learning: A Comparative Study of SVM and Deep Learning

Mohammad Amin Hasanpour (Technical University of Denmark (DTU), Denmark), Rasmus Engholm (Grundfos Holding A/S, Denmark), Xenofon Fafoutis (Technical University of Denmark (DTU), Denmark)

## Simulating sensor noise model for real-time testing in a virtual underwater environment

Junwen Deng (Southern University of Science and Technology, China), Andrew Filisetti (Southern University of Science and Technology, China), Hui Sheng Lim (Southern University of Science and Technology, China), Du Yong Kim (Southern University of Science and Technology, China), Akram Al-Hourani (Southern University of Science and Technology, China)

Friday, 26 July 2024 | 15:30 – 16:20 (Melbourne Time)

#### Session AloT-10: AloT with Blockchain

Session Chair: Akanksha Saini, RMIT University, Australia

#### Two-tier Multi-zone Consensus: Enable Intelligence Sharing for AIoT with Enhanced Security

Weikang Liu (Beijing University of Posts and Telecommunications, China), Bin Cao (Beijing University of Posts and Telecommunications, China), Mugen Peng (Beijing University of Posts and Telecommunications, China)

# **Decentralized Anonymous Crowdsourcing with Blockchain and Anonymous Payments**

Hanwei Zhu (Australian National University, Australia), Sid Chau (CSIRO's Data61, Australia)

Friday, 26 July 2024 | 16:20 – 16:30 (Melbourne Time)

# **Closing Session**

Session Chair: Wei Xiang, La Trobe University, Australia