ISTT
International Symposium on Telecommunication Technologies
KUALA LUMPUR, MALAYSIA
2026

PROGRAMME BOOK

2026 8th IEEE International Symposium on Telecommunication Technologies

ISTT 2026

"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity"



14 – 15 October 2026

Meliá Kuala Lumpur, Malaysia

Hybrid Conference

Main Organizer:

IEEE

IEEE Malaysia ComSoc & VTS Joint Chapter

IEEE ComSoc IEEE Communications Society Malaysia Chapter

IEEE VTS Connecting the Mobile World Malaysia Chapter

TABLE OF CONTENTS

01 Conference Background 1
02 Organizing Committee 2
03 Welcome Message from the General Chair 3
04 Welcome Message from the Conference Co - Chair 4
05 Conference Venue 5
06 Conference Programme 6
07 Keynotes 7
08 Industry Forum 10
09 Paper Track and Sessions 11
10 Author Index 15
11 Appreciation - Technical Program Committee & Reviewers 21

CONFERENCE BACKGROUND

The IEEE International Symposium on Telecommunication Technologies (ISTT) is a biennial international conference that provides a platform for academics, researchers, engineers, industry professionals, and representatives from government exchange knowledge, present research findings, and discuss emerging developments in telecommunication and vehicular technologies. The symposium promotes interaction among the research community, industry, and government while encouraging collaboration and the advancement of communication technologies.

The 2026 8th IEEE International Symposium on Telecommunication Technologies (ISTT2026) will be held on 14-15 October 2026 at Melia Kuala Lumpur, Malaysia, in a hybrid format, allowing both physical and online participation, ISTT2026 is the flagship biennial conference of the IEEE Malaysia Communication Society and Vehicular Technology Technely Society Joint Chapter (MyComVT) and continues the symposium's commitment to bringing together local and international communities working in telecommunications and vehicular technologies.

With the theme ***"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity."*** ISTT2026 highlights the increasing importance of seamless, efficient, and intelligent communication systems in an increasingly connected world. The symposium provides an avenue for delegates to present their latest research, technical knowledge and expertise, eonoporrre innovative solutions, and discuss emerging trends and future directions among communicatr and tramodin and the conference will feature keynote presentations by distinguished experts, technical paper presentations, and opportunities for collaboration among academia, industry, and government agencies.

Since its inception, ISTT has developed into an established forum for the dissemination of research and technological developments in telecommunications. The first ISTT was held in Kuala Lumpur in 2012, followed by the second edition in Langkawi in 2014, the third in Kuala Lumpur in 2016, the fourth in Selangor in 2018, the fifth in Shah Alam aim in 2020, the sixth in Johor Bahru in 2022, and the seventh in Langkawi in 2024. ISTT2026 marks the eighth edition of the symposium and brings the conference back to Kuala Lumpur, Malaysia.

Accepted and presented papers that fulfil the applicable IEEE publication requirements will be published in the IEEE ISTT2026 Conference Proceedings and submitted to the IEEE Xplore™ Digital Library, as well as other Abstracting and Indexing (A&I) databases.

CONFERENCE THEME

"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity"



ORGANIZING COMMITTEE

GENERAL CHAIR
Assoc. Prof. Dr. Leow Chee Yen (Bruce) • UTM

SECRETARY
Dr. Nurul Ashikin Daud • UTM

TREASURER
Assoc. Prof. Dr. Rudzidatul Akmam Dziyauddin • UTM

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Ts. Dr. Nur Ilyana Anwar Apandi • UTeM
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Ts. Dr. Lu Li (Benney) • UPM

CONFERENCE CO-CHAIR
Assoc. Prof. Dr. Mohd Fais Mansor • UKM
Mr. Khairil Anuar • MMU

SECRETARIAT CO-CHAIR
Dr. Jamaluddin Zakaria • UTM
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Assoc. Prof. Dr. Imran Mohd Ibrahim • UTeM
Dr. Muhammad Inam Abbasi • UTeM

KEYNOTE CO-CHAIR
Prof. Ts. Dr. Mardeni Roslee, FASc • MMU
Prof. Ir. Dr. Khaizuran Abdullah • IIUM

WELCOME MESSAGE
FROM THE GENERAL CHAIR



Assoc. Prof. Ts. Dr Chee Yen (Bruce) Leow
Chair of IEEE Malaysia ComSoc/VTS Joint Chapter
General Chair, ISTT2026

It is my great pleasure to welcome you to the **2026 IEEE 8th International Symposium on Telecommunication Technologies (ISTT2026)**, to be held on 14–15 October 2026 at Meliá Kuala Lumpur, Malaysia, in a hybrid format. On behalf of the IEEE Malaysia Communications Society and Vehicular Technology Society Joint Chapter, I am delighted to welcome researchers, academicians, engineers, industry professionals, students, and delegates from Malaysia and around the world to this important gathering.

ISTT has grown steadily since its inaugural edition in Kuala Lumpur in 2012. Over the years, the symposium has been hosted in various locations across Malaysia, including Langkawi, Selangor, Shah Alam, and Johor Bahru, providing a consistent platform for the exchange of knowledge and ideas in telecommunications and vehicular technologies. As we gather once again in Kuala Lumpur for the 8th edition of ISTT, we are pleased to continue this biennial tradition and build upon the achievements of previous editions..

The theme of ISTT2026, ***"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity,"*** reflects the increasingly important role of communication technologies in enabling a more connected and intelligent future. Rapid developments in communication networks, wireless and mobile technologies, vehicular communications, intelligent systems, and related areas continue to transform the way people, devices, and infrastructure interact. These developments present new opportunities as well as technical challenges that require meaningful engagement across research, industry, and professional communities.

ISTT2026 provides a timely forum for researchers and practitioners to present their latest findings, exchange perspectives, discuss emerging technologies, and establish new professional and research connections. The participation of academia, industry, government and professional bodies, as well as the next generation of researchers and engineers, is essential in translating advances in research into technologies and solutions that can benefit society.

I would like to express my sincere appreciation to the Conference Chair and the entire Organizing Committee for their commitment and dedication in preparing ISTT2026. My gratitude also goes to the Technical Program Committee and reviewers for their valuable expertise and contributions towards maintaining the quality of the symposium. I extend our appreciation to all speakers, authors, sponsors, patrons, supporters, and volunteers whose contributions make this event possible. Most importantly, I thank all participants for being part of ISTT2026 and for contributing to the continued success of the symposium.

To our international and out-of-town delegates, I warmly welcome you to Kuala Lumpur, a dynamic city where Malaysia's diverse heritage meets modern development. I wish everyone a productive, inspiring, and memorable experience at ISTT2026. May the symposium encourage meaningful discussions, strengthen professional relationships, and create opportunities for future research and cooperation.

WELCOME MESSAGE
FROM THE CONFERENCE CO-CHAIR



Assoc. Prof. Dr. Mohd Fais Mansor
Conference Co-Chair, ISTT2026



Mr. Khairil Anuar
Conference Co-Chair, ISTT2026

On behalf of the Organizing Committee, it is our pleasure to welcome you to the **2026 IEEE 8th International Symposium on Telecommunication Technologies (ISTT2026)**, taking place on 14-15 October 2026 at Meliá Kuala Lumpur, Malaysia. We are pleased to bring together researchers, academics, engineers, industry professionals, students, and other stakeholders for this biennial symposium dedicated to advancing research and knowledge in telecommunications and vehicular technologies.

Under the theme ***"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity",*** ISTT2026 provides a platform for the presentation and discussion of current research, technological developments, and emerging challenges shaping the future of communication and vehicular systems. As these technologies continue to evolve rapidly, opportunities such as ISTT2026 are increasingly important for exchanging ideas and strengthening links between research and practical applications.

The symposium is designed to encourage technical discussion, knowledge exchange, professional networking, and the development of new research connections among participants. The hybrid format further enables participation from delegates who may not be able to join us physically in Kuala Lumpur, helping to broaden the reach and engagement of the symposium.

We would like to extend our sincere appreciation to our General Chair for his leadership and guidance, as well as to the Technical Program Committee and reviewers for their dedication in supporting the technical quality of ISTT2026. Our heartfelt thanks also go to the Organizing Committee for their commitment and teamwork in preparing the conference. We are equally grateful to our authors, speakers, sponsors, supporters, volunteers, and all participants whose contributions are essential to the success of this event.

For those joining us in person, we are delighted to welcome you to Kuala Lumpur. We hope you will take the opportunity to enjoy the city's unique combination of culture, hospitality, and modern urban life while engaging with colleagues and making new professional connections. I wish all delegates a rewarding and enjoyable ISTT2026. May the symposium provide valuable insights, stimulating discussions, new connections, and opportunities for future cooperation.

CONFERENCE VENUE



Meliá Kuala Lumpur

16 Jalan Imbi,
55100 Kuala Lumpur, Malaysia.

+603 2785 2828

https://www.melia.com

The Meliá Kuala Lumpur is the official venue for the 2026 8th IEEE International Symposium on Telecommunication Technologies (ISTT2026), held on 14–15 October 2026. Strategically located in the heart of Kuala Lumpur, the hotel provides a professional and convenient setting for researchers, academics, engineers, industry professionals, and representatives from government agencies.

Situated within the vibrant Bukit Bintang district, Meliá Kuala Lumpur offers modern meeting facilities, comfortable accommodation, and convenient access to the city's transportation network. Its central location provides an ideal environment for technical sessions, knowledge exchange, professional networking, and collaboration throughout the symposium.

Kuala Lumpur, the capital city of Malaysia, is a dynamic metropolitan centre where modern development meets rich multicultural heritage. The city is renowned for its distinctive skyline, diverse cuisine, cultural attractions, and warm Malaysian hospitality, providing an excellent setting for ISTT2026 and its theme, ***"Advancing Telecommunication and Vehicular Technologies for Intelligent Connectivity.***

Delegates can also explore many of the city's prominent attractions, including the Petronas Twin Towers, KLCC, Bukit Bintang, Central Market, Merdeka Square, and Kuala Lumpur Tower. With its strategic location and professional facilities, Meliá Kuala Lumpur offers a welcoming venue for meaningful knowledge exchange and collaboration among ISTT2026 participants from Malaysia and around the world.

CONFERENCE PROGRAMME

DAY 01 WEDNESDAY, 14 OCTOBER 2026

PHYSICAL CONFERENCE
Meliá Kuala Lumpur, Malaysia

TIME	PROGRAMME	VENUE
08:30 – 09:00	**Registration**	**Meliá Hotel** **Level M1** **(Alhambra I & II)**
09:00 – 09:15	**Opening Ceremony**	
09:15 – 10:15	**KEYNOTE 1** **Prof. Xu (Judy) Zhu** Harbin Institute of Technology, Shenzhen, China	
10:15 – 10:30	**Coffee Break**	
10:30 – 11:30	**KEYNOTE 2** **Emeritus Professor Dr. Tharek Abd Rahman** Fellow of Academy of Sciences Malaysia (FASc) Malaysian Communications and Multimedia Commission	
11:30 – 12:30	**INDUSTRY FORUM**	
12:30 – 14:00	**Lunch Break**	
14:00 – 15:45	**TECHNICAL SESSION 1** Level M1 (Alhambra I & II) | **TECHNICAL SESSION 2** Level M2 (Alhambra III & IV)	
15:45 – 16:00	**Coffee Break**	
16:00 – 17:30	**TECHNICAL SESSION 3** Level M1 (Alhambra I & II) | **TECHNICAL SESSION 4** Level M2 (Alhambra III & IV)	

DAY 02 THURSDAY, 15 OCTOBER 2026

VIRTUAL CONFERENCE
Google Meet

TIME	PROGRAMME	VENUE
09:00 – 10:00	**KEYNOTE 3** **Dr. Hizamel M. Hizan** Director of the Centre of Excellence (CoE) for Intelligent Network Telekom Malaysia R&D	**Online** **Google Meet**
10:00 – 10:15	**Coffee Break**	
10:15 – 12:15	PARALLEL TECHNICAL SESSIONS **TECHNICAL SESSION 5** | **TECHNICAL SESSION 6** **TECHNICAL SESSION 7** | **TECHNICAL SESSION 8**	**Online** **Google Meet**

TECHNICAL SESSION DETAILS
Virtual meeting links and detailed technical session information are available through **EDAS**.

KEYNOTE SPEAKER



Prof. Xu (Judy) Zhu

Harbin Institute of Technology, Shenzhen, China

xuzhu@ieee.org

KEYNOTE TOPIC

TOWARD 6G: INTELLIGENT CONNECTION-TRANSMISSION-SCHEDULING FOR WIRELESS NETWORKS

This speech addresses the vision, challenges, and intelligent solutions for sixth-generation (6G) wireless networks. Driven by the explosive growth of heterogeneous devices and mission-critical applications such as autonomous driving and low-altitude intelligent networking, conventional communication paradigms face bottlenecks including coverage gaps, severe interference, and time-varying wireless channels. To overcome these challenges, an integrated framework of intelligent connection, transmission, and scheduling is established. For intelligent connection, user-centric cell-free communication and quality of service (QoS)-aware massive random access techniques are adopted to enhance coverage, access success rate, and resource utilization. For intelligent transmission, efficient channel estimation and prediction methods are developed, together with sparse coding and joint source-channel coding for semantic communicators, to achieve high reliability, low latency, and strong robustness in dynamic environments. For intelligent scheduling, multi-domain resource coordination and integrated sensing and communication (ISAC) beamforming are employed to optimize spectral and energy efficiency while enhancing sensing-communication synergy. Significant performance gains are demonstrated via theoretical analysis, numerical simulations, and hardware testbeds.

SPEAKER'S BIO

Prof. Xu (Judy) Zhu received the BEng degree in Electronics and Information Engineering from Huazhong University of Science and Technology, Wuhan, China, and the PhD degree in Electrical and Electronic Engineering from the Hong Kong University of Science and Technology, Hong Kong, China. She was a Reseacher of the Department of Electrical Engineering and Electronics, the University of Liverpool, Liverpool, UK. She is currently a Professor of the School of Electronic and Information Engineering, Harbin Institute of Technology, Shenzhen, China. Her research interests include MIMO, channel estimation and equalization, ultra reliable low latency communication, cooperative communication, green communication, etc. She has co-authored 2 books and more than 210 technical papers, and received a Best Paper Award of IEEE Globecom 2019. She has served as an Editor for the IEEE Transactions on Wireless Communications, and a Guest Editor for several international journals such as Electronics. She was Vice Chair of the 2006 and 2008 ICARN International Workshops, Program Co-Chair of ICSAI 2012, Symposium Co-Chair of IEEE ICC 2016, ICC 2019 and Globecom 2021, and Track Co-Chair of IEEE WCNC 2022.

KEYNOTE SPEAKER



Professor Emeritus
Dr. Tharek Abd Rahman, FASc

Fellow of Academic of Science Malaysia (FASc)
Malaysian Communication and Multimedia Commission (MCMC)

tharek@mmc.gov.my

KEYNOTE TOPIC

5G TECHNOLOGY AND EVOLUTION TOWARDS 6G

5G technology and its subsequent evolutions serve as the backbone for modern global digital infrastructure, scaling network capabilities to handle explosive data traffic. By offering data transfer rates up to 20 Gbit/s, ultra-low latencies down to 1 millisecond, and the capacity to support 1 million devices per square kilometre, this ecosystem shifts telecommunications from simple consumer mobile broadband into a highly integrated platform for automation, industry, and intelligent computing.

SPEAKER'S BIO

Professor Emeritus Dr Tharek Abd Rahman, FASc holds a Bachelor's Degree in Electrical Engineering from University of Strathclyde, Glasgow, United Kingdom, Master's Degree in Communications Engineering from University of Manchester, United Kingdom; and PhD in Mobile Communication from University of of Bristol, United Kingdom. Professor Emeritus Dr Tharek Abd Rahman was a Professor of Wireless Communications at Faculty of Electrical Engineering, Universiti Teknologi Malaysia. Professor Emeritus Dr Tharek has published more than 300 scientific papers and journals whereby his ideas won national and international recognition. He is an active member of several research academic entities and has been appointed as Fellow of Academic of Science Malaysia (FASc) and Subject Matter Expert for MCMC Academy. Professor Emeritus Dr Tharek plays a key role in developing 5G Malaysia initiatives. In the 1990s, he was involved in ITU Task Force 8/1 related to the IMT2000 (3G) and Working Party 5D (ITU-R) Standardization related to 5G (IMT-2020) and 6G (IMT2030). He connects academia and the telecommunication industry, forming effective collaboration and partnerships. This includes the engagements with Japan's 5G Mobile Communications Promotion Forum (5G MF) and Korea's 5G Forum, which promotes knowledge transfer and the collaboration in 5G research and development.

KEYNOTE SPEAKER



Dr. Hizamel M. Hizan

Telekom Malaysia Research & Development

drhizamel@tmrnd.com.my

KEYNOTE TOPIC

CO-INNOVATING INTELLIGENT NETWORKS: ACADEMIA–INDUSTRY COLLABORATION FOR 5G/6G EMERGING TECHNOLOGIES

This keynote explores the evolution of intelligent networks and the shift toward future-ready connectivity. It highlights academia–industry collaboration in co-innovating emerging technologies, accelerating innovation and translating research into real-world impact. Key focus areas include intelligent network solutions, Quantum and Sensing Technologies, enabling 5G/6G next-generation intelligent networks.

SPEAKER'S BIO

Dr. Hizamel M. Hizan is the Director of the Centre of Excellence (CoE) for Intelligent Network at TM R&D, with over 20 years of experience in the telecommunications industry. He holds a Ph.D. in Electronic and Electrical Engineering from the University of Leeds, U.K., an M.Sc. (with Distinction) in RF and Communication Engineering from the University of Bradford, U.K., and a B.Eng. (Hons.) in Electronic and Communication Engineering from the University of York, U.K. He began his career at Telekom Malaysia, developing expertise in technologies such as WCDMA and WDM systems, and previously served on the Industrial Advisory Board (IAB) at the Centre on Optical Wireless Application (COWA), National Science Foundation, Georgia Institute of Technology, Atlanta, USA. At TM R&D, he has led numerous connectivity and IoT initiatives, contributing to international recognition, including the IoT Innovation Award at the World Communication Awards 2020 and the TM Forum Excellence Award 2020 (Beyond Connectivity category). He is a certified Professional Scrum Product Owner and a Graduate Member of the Board of Engineers Malaysia. His research interests include 5G/6G, integrated sensing and communication, fibre technologies, autonomous networks, network convergence, deep packet inspection, IoT, Radio-over-Fiber (RoF), DAS, WiFi, LTE, and satellite communications.

INDUSTRY FORUM

FORUM TOPIC

5G BEYOND FOR INDUSTRY:
Accelerating Digital Transformation and IoT Integration



PANELIST

Mr. Anwar Faizd Osman

Malaysian Technical Standards Forum Berhad

ANWAR FAIZD OSMAN was born in Georgetown, Penang. He has a Master of Science degree in Electrical and Electronic Engineering from Universiti Sains Malaysia (USM). He is currently the Head of 5G Product Development for Telekom Malaysia. In Telekom Malaysia, he leads the End to End roadmap development for Telekom Malaysia (TM) 5G Core as a Service, which include Network Slicing, 5G Standalone solutions and related 5G Value Added Services. Prior to Telekom Malaysia, he has worked in Rohde & Schwarz, Agilent Technologies, Motorola Solutions and Intel Malaysia. He has published multiple technical papers on LNA, RF switches, and RF filter designs. His research interests include wireless testing for mobile operators and interference hunting. Mr. Osman has been a Committee Member of IEEE ED/MTT/SSC Penang Chapter since 2015, currently serves as the Chapter Auditor. He was a part of the National 5G Taskforce Member and the Chairperson of the 5G Ecosystem and Timeline Sub-Working Group, under the Spectrum Working Group of the Task Force.



PANELIST

Ir. Ts. Dr. Nordin Ramli, FASc

MIMOS Berhad

IR. TS. DR. NORDIN RAMLI, FASc is an accomplished researcher and technology leader with over 20 years of experience in telecommunications and advanced digital technologies. He is with MIMOS Berhad, with expertise spanning wireless communications, Internet of Things (IoT), predictive analytics, cognitive radio, and emerging technologies. He holds a B.Eng. from Keio University, Japan, and M.Eng. and Ph.D. degrees from the University of Electro-Communications, Japan. He has authored more than 100 publications, holds a portfolio of 30 intellectual properties, and has been recognised as a Top Research Scientist Malaysia (TRSM) and Fellow of the Academy of Sciences Malaysia (FASc).



PANELIST

Mr. Yeoh Chun Yeow

Telekom Malaysia Research & Development

CHUN-YEOW YEOH received the B.Eng. and M.Sc. degrees in Electrical and Electronic Engineering from Universiti Teknologi Malaysia. He is currently principal researcher and director of COE for Advanced Cloud with Telekom Malaysia R&D. He has been a delegate to the 3GPP 4G/5G standardization group and led the development of Quantum initiatives on PQC/QKD and Quantum enabled optimization, Open Innovation Platform, Autonomous Networks and worked on multiple cloud enabled projects. He has filed several patents and contributed to the development of 5G specifications in Malaysia. His current research interests include semantic communication, beyond 5G/6G networks, embedded systems, AI, quantum and edge containerization.



FORUM CHAIR

Prof. Ir. Dr. Hafizal Mohamad, FASc

Universiti Sains Islam Malaysia

PROF. IR. DR. HAFIZAL MOHAMAD, FASc is the recipient of ASEAN Outstanding Scientist and Technologist Award (AOSTA) 2017 and Top Research Scientist Malaysia (TRSM) by Academy of Sciences Malaysia. Currently, he is a Professor at the Department of Electrical and Electronic Engineering, Universiti Sains Islam Malaysia (USIM). He was a Senior Staff Researcher at Corporate Technology Division, MIMOS Berhad. Hafizal has more than 25 years working experience in the ICT industry and passionate about creating a hyper-connected world. He is the co-inventor of 36 filed patents and nine granted patents in the field of wireless communications. He served as a visiting fellow at NICT, Japan in 2005. He has published over 100 journal and conference papers. He has delivered keynote and expert talks at national and international events. Hafizal is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), USA and he has served in various leadership roles in the IEEE, including the Vice Chair for IEEE Malaysia Section (2013), the General Co-Chair of IEEE WCNC 2024, and the Conference Operation Chair of IEEE ICC 2016. Hafizal has also been appointed as an expert panel for technical committees related to E&E and ICT areas. Hafizal earned BEng (first class) and PhD degrees in electronic engineering from University of Southampton, UK. He is a registered professional engineer with Board of Engineer Malaysia and a certified HRDF trainer.

PAPER TRACK & SESSIONS

TECHNICAL SESSION 1

Wednesday, 14 October 2026 | **14:00 – 15:45** | **Meliá Hotel Level M1 (Alhambra I & II)**

Session Chairs:
Effariza Hanafi
Asma Abu-Samah

1. **Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables**
   Muhammad Faiz Ibrahim, Naim Nani Fadzlina, Suzi Seroja Sarnin, Mohd Saiful Dzulkefly Zan, Norsuzila Yacob and Huzainie Shafi Abd Halim
2. **Enhanced Room-Temperature Formaldehyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor**
   Norhafizah Burham, Aziati Husna Awang, Norazida Ali, Muhammad Nur Aiman Khairol Afandi, Siti Halma Johari and Norhana Arsad
3. **Sensitivity Analysis of Refractive Index POF Sensor for Liquid Contamination Detection**
   Latifah Sarah Suplan
4. **Coverage and Availability Analysis of Direct-to-Device Satellite Connectivity in Rural Malaysia**
   Siti Maisurah Mohd Hassan, Azah Syafiah Mohd Marzuki, Ir and Mardeni Roslee
5. **Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks**
   Yang Li, Ying Loong Lee, Mau Luen Tham, Yoong Choon Chang and Feng Ke

TECHNICAL SESSION 2

Wednesday, 14 October 2026 | **14:00 – 15:45** | **Meliá Hotel Level M2 (Alhambra III & IV)**

Session Chairs:
Mardeni Roslee
Jamaluddin Zakaria

1. **Transfer Learning for Radar-Aided mmWave Beam Prediction Under Base Station Relocation**
   Radia Hambli, Aduwati Sali and Nur Luqman Saleh
2. **Spatio-Temporal Synthetic 6G IoT Traffic Modelling For Smart Cities Applications: A Sunway City Case Study**
   Abdullah Umar, Rosdiadee Nordin and Saad Aslam
3. **Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model**
   Hui Shan Lee, Yin Ting Chin, Sin Yee Lee, Kok Eng Tan and Salizatul Azizah Ibrahim
4. **Development of Software-Defined Radio-Based Radar and Jamming Simulator**
   Mohd Fais Mansor and Muhamad Arif Daniel Bin Abu Talib
5. **Design Of An 8-Element Controlled Reception Pattern Antenna (CRPA) Patch Array with Defected Ground Structure (DGS) For Anti-Jamming Applications**
   Mohd Fais Mansor and Muhammad Farid Jalil
6. **AI-Enhanced Dual-Source Collaborative Perception and Multi-Objective Optimised Hybrid Control for Low-Cost HGV Platooning Systems**
   Tang Khai Luen, Pei Ling Leow, Chee Yen Leow and Luan Chen

TECHNICAL SESSION 3

Wednesday, 14 October 2026 | **16:00 – 17:30** | **Meliá Hotel Level M1 (Alhambra I & II)**

Session Chairs:
Khaizuran Abdullah
Nur Idora Abdul Razak

1. **DAMIDS: Distance and Mobility-based Intrusion Detection System for Wormhole Attacks in Vehicular Ad hoc Networks**
   Jericho Gerona, Hazel Mendoza and Jhoanna Pedrasa
2. **Multilayer Perceptron for Intrusion Detection in Intelligent Transport Systems**
   Paul Vincent Alpaño and Jhoanna Pedrasa
3. **Performance Evaluation of an SDR-Based LoRa Receiver for Industrial Telemetry in Indoor NLOS Environments**
   Muhammad Solehin Bin Ghazali, Mas Haslinda Mohamad, Imran Mohd Ibrahim and Nor Khairiah Ibrahim
4. **IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models**
   Nagesparan Ainarappan, Eur Ing.Ir, Effariza Hanafi, Vikneswaran Vijean, Myadadha Goutham Reddy, Giva Kuppusamy and Suganya Ramamoorthy
5. **KPI Threshold Determination for QoE Optimization in 5G FWA Networks: A Case Study in Indonesia**
   Asri Wulandari, Muhammad Suryanegara, Dadang Gunawan, Fitri E Ananda and Shita Herfiah

TECHNICAL SESSION 4

Wednesday, 14 October 2026 | **16:00 – 17:30** | **Meliá Hotel Level M2 (Alhambra III & IV)**

Session Chairs:
Mardeni Roslee
Lu Li

1. **QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks**
   Clement Teck Zhen Wong, Ying Loong Lee, Yong-Hong Lee, Kim Yee Lee and Yeong Nan Phua
2. **A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC**
   Abdul Samad, Teong Chee Chuah, Muhammad Sheraz, It Ee Lee, Sohail Imran Saeed and Chun Yeow Yeoh
3. **Impact of Backhaul Architecture on Operational Carbon Emission in 5G Heterogeneous Networks**
   Vinsensius Sigit Widhi Prabowo, Muhammad Suryanegara and Ruki Harwahyu
4. **Tensor-Based Joint Active-Support OMP Channel Estimation for IRS-aided Multi-user MIMO Systems**
   Baranidharan V, Surendar M and Sundaresan Sabapathy
5. **Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks**
   Zul Arif Nael, Hafiz Muhammad Fahad Noman, Effariza Hanafi, Kaharudin Dimyati and Kamarul Ariffin Noordin

TECHNICAL SESSION 5

Thursday, 15 October 2026 | **10:15 – 12:15** | **Google Meet**

Session Chairs:
Imran Mohd Ibrahim
Nur Ilyana Anwar Apandi

1. **Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications**
   Altaf Ahmed, Muhammad Inam Abbasi, S. Kesarajah, Imran Mohd Ibrahim and Noor Hafizah Sulaiman
2. **Indoor Millimeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surface**
   Lu Li, Muhammad Ikhwan Shahar, Nur Ilyana Anwar Apandi, Muhammad Hakimi Hamdan and Nor Aishah Muhammad
3. **Asymmetrical Silicon-On-Insulator Rib Waveguide For Optical Directional Coupler**
   Nurdiani Zamhari, Abdul Rahman Kram and Kuryati Kipli
4. **Class-Imbalance-Aware Quantum Intrusion Detection for IoT and IoV Networks: Class-Wise Focal Loss Training of VQC**
   Abbas Sahwan, Sharifah Hafizah Syed Ariffin, Nurul Ashikin Daud and Abdulla Desmal
5. **Employing the Dinkel-Bach and Quadratic-Transform Optimization Framework to Maximize Energy Efficiency in a Half-Duplex Multiuser Massive MIMO Integrated with a relay system**
   Huda Salman Hameed and Tahreer Mahmood

TECHNICAL SESSION 6

Thursday, 15 October 2026 | **10:15 – 12:15** | **Google Meet**

Session Chairs:
Rudzidatul Dziyauddin
Fatimah Zaharah Ali

1. **Deep Learning for Spectrum Sensing in Cognitive Radio Networks**
   Muhammad Fami Azaha, Khaizuran Abdullah, Md Rafiqul Islam, Ahmad Zamani Jusoh and Malik Arman Morshidi
2. **Machine Learning-Based Analysis and Prediction of Urban 5G Network Performance using Real-World Measurement Data**
   Nur Idora Abdul Razak
3. **Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL**
   Muayad F. Alallaf, Mohd Adib Sarijari, Rozeha A. Rashid, Sanarya K Yahya, Ridha A. Hussein and Mohammed Ahmed Mohammed
4. **Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision**
   Ahmad Haziq Bin Ahmad Khairuman, Cheong Jiahui, Jessie Moh Ngiik Jun, Nurul Asyiqin Binti Shukor, Kirtanan Mani Maran, Chua Le Jun and Rudzidatul Dziyauddin
5. **Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease**
   Wan Norsyafizan Wan Muhamad, Suzi Seroja Sarnin, Aziati Husna Awang, Ros Shilawani S. Abdul Kadir, Suhaila Subahir and Nur Irdina Izzati Md Daud

TECHNICAL SESSION 7

Thursday, 15 October 2026 | **10:15 – 12:15** | **Google Meet**

Session Chairs:
Rashidah Siti Saedah Arsat
Muhammad Inam Abbasi

1. **Development of a Solar-Powered IoT Magnetic Field Monitoring System**
   Aznilinda Zainuddin, Zatul Iffah Abd Latiff, Muhammad Ateef Saroni and Maizura M.Sani
2. **A Comprehensive Framework for Context-Aware Driving Risk Mitigation**
   Fatma Outay and Siham Farrag
3. **Performance Analysis of Naive Bayes Network Traffic Classification for NOC Environments**
   Muhammad Dani Ikhwan Mohd Nor Fahmi, Siva Priya Thiagarajah and Farzana Sharmin Nila
4. **Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies**
   Saraban Salsabila, A. Rashid A. Aziz, Azlan Awang, M Syaifuddin Mohd and Md Abu Hasan Al Askary

TECHNICAL SESSION 8

Thursday, 15 October 2026 | **10:15 – 12:15** | **Google Meet**

Session Chairs:
Wan Norsyafizan Wan Muhamad
Nurul Ashikin Daud

1. **Internet of Things Enabled System for Fall Detection and Remote Caregiver Notification**
   Wan Haszerila Wan Hassan
2. **Towards Adaptive MEC-IoV Orchestration: A Comparative Study of DDPG, SAC, and PPO**
   Kobby Asare Obeng, Sharifah Hafizah Syed Ariffin and Nor Aishah Muhammad
3. **The Advancement of In-vehicle Network Protocols for Future Mobility**
   Charn Loong Ng, Chee Fai Yap and Nur Syazreen Ahmad
4. **An Optimal FOCS Algorithm for Reducing Network Usage in Fog Computing Environments**
   Lu Li, Majid Rafique, Nur Ilyana Anwar Apandi and Zamani Md Sani
5. **Lightweight Hybrid Machine Learning-Based Intrusion Detection for SIP-Based VoIP Network Against DoS and DDoS Attacks**
   Noor Farah Shahida Mohd Haris and Muhammad Faiq Zulhariz Mohd Farish

AUTHOR INDEX

A

A. Aziz, A. Rashid
Technical Session 7.4
Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies

A. Rashid, Rozeha
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

Abd Halim, Huzainie Shafi
Technical Session 1.1
Modeling and Simulation of Transmitter and Receiver Modulus for Fault Localization in Underground Supervisory Control (Pilot) Cables

Abd Latiff, Zatul Iffah
Technical Session 7.1
Development of a Solar-Powered IoT Magnetic Field Monitoring System

Abdul Razak, Nur Idora
Technical Session 6.2
Machine Learning-Based Analysis and Prediction of Urban 5G Network Performance using Real-Time Measurement Data

Abdullah, Khaizuran
Technical Session 6.1
Deep Learning for Spectrum Sensing in Cognitive Radio Networks

Abu Talib, Muhamad Arif Daniel Bin
Technical Session 2.4
Development of Software-Defined Radio-Based Radar and Jamming Simulators

Ahmad, Nur Syazreen
Technical Session 8.3
The Advancement of In-vehicle Network Protocols for Future Mobility

Ahmed, Altaf
Technical Session 5.1
Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications

Ainarapan, Nagesparan
Technical Session 3.4
IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models

Al Askary, Md Abu Hasan
Technical Session 7.4
Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies

Alallaf, Muayad
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

Ali, Norazida
Technical Session 1.2
Enhanced Room-Temperature Formaldhyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor

Alpaño, Paul Vincent
Technical Session 3.2
Multilayer Perception for Intrusion Detection in Intelligent Transport Systems

Ananda, Fitr
Technical Session 3.5
KPI Threshold Determination for OoE Optimization in 5G FWA Networks: A Case Study in Indonesia

Anwar Apandi, Nur Ilyana
Technical Session 5.2
Indoor Milmeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surface
Technical Session 8.4
An Optimal FOCS Algorithm for Reducing Network Usage in Fog Computing Environments

Arsad, Norhana
Technical Session 1.2
Enhanced Roam-Temperature Formaldhyde Detection Using Tungsten Disulfide Functional Tapered Optical Microfiber Sensor

Aslam, Saad
Technical Session 2.2
Spatio-Temporal Synthetic 6G IoT Traffic Modeling for Smart Cities Applications: A Sunway City Case Study

Awang, Aziati Husna
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease
Technical Session 1.2
Enhanced Room-Temperature Formaldehyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor

Awang, Azlan
Technical Session 7.4
An Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies

Azaha, Muhammad
Technical Session 6.1
Deep Learning for Spectrum Sensing in Cognitive Radio Networks

Azizah Ibrahim, Salizatul
Technical Session 2.3
Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model

B

Burham, Norhafizah
Technical Session 1.2
Enhanced Room-Temperature Formaldhyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor

C

Chang, Yoong Choon
Technical Session 1.5
Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks

Chen, Luan
Technical Session 2.6
Al-Enhanced Dual-Source Collaborative Perception and Multi-Objective Optimised Hybrid Control for Low-Cost HGV Platooning Systems

C

Chin, Yin Ting
Technical Session 2.3
Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model

Chuah, Teong Chee
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

D

Daud, Nurul Ashikin
Technical Session 5.4
Class-Imbalance-Aware Quantum Intrusion Detection for IoT and IoV Networks: Class-Wise Focal Loss Training of VQC

Desmal, Abdulla
Technical Session 5.4
Class-Imbalance-Aware Quantum Intrusion Detection for IoT and IoV Networks: Class-Wise Focal Loss Training of VQC

Dimyati, Kaharudin
Technical Session 4.6
Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks

Dziyauddin, Rudzidatul
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

F

Farrag, Siham
Technical Session 7.2
A Comprehensive Framework for Context-Aware Driving Risk Mitigation

G

Gerona, Jericho
Technical Session 3.1
DAMIDS: Distance and Mobility-based Intrusion Detection System for Wormhole Attacks in Vehicular Ad hoc Networks

Ghazali, Muhammad Solehin Bin
Technical Session 3.3
Performance Evaluation of an SDR-Based LoRa Receiver for Industrial Telemetry in Indoor NL0S Environments

Goutham Reddy, Myadadha
Technical Session 3.4
IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models

Gunawan, Dadang
Technical Session 3.5
KPI Threshold Determination for QoE Optimization in 5G FWA Networks: A Case Study in Indonesia

H

Hambli, Radia
Technical Session 2.1
Transfer Learning for Radar-Aided mmWave Beam Prediction Under Base Station Relocation

Hamdan, Muhammad Hakimi
Technical Session 5.2
Indoor Millimeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surface

Hameed, Huda Salman
Technical Session 5.5
Employing the Dinkel-Bach and Quadratic-Transform Optimization Framework to Maximize Energy Efficiency in a Half-Duplex Multiuser Massive MIMO Integrated with a relay system

Hanafi, Effariza
Technical Session 4.6
Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks

Haris, Noor Farah Shahida Mohd
Technical Session 8.5
Lightweight Hybrid Machine Learning-Based Intrusion Detection for SIP-Based VoIP Network Against DoS and DDoS Attacks

Harwahyu, Ruki
Technical Session 4.3
Impact of Backhaul Architecture on Operational Carbon Emission in 5G Heterogeneous Networks

Herfiah, Shita
Technical Session 3.5
KPI Threshold Determination for QoE Optimization in 5G FWA Networks: A Case Study in Indonesia

Hussein, Ridha
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

I

Ibrahim, Muhammad Faiz
Technical Session 1.1
Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables

Ibrahim, Nor Khairiah
Technical Session 3.3
Performance Evaluation of an SDR-Based LoRa Receiver for Industrial Telemetry in Indoor NLOS Environments

Inam Abbasi, Muhammad
Technical Session 5.1
Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications

Islam, Md
Technical Session 6.1
Deep Learning for Spectrum Sensing in Cognitive Radio Networks

J

Jalil, Muhammad Farid
Technical Session 2.5
Design Of An 8-Element Controlled Reception Pattern Antenna (CRPA) Patch Array with Defected Ground Structure (DGS) For Anti-Jamming Applications

Jiahui, Cheong
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Johari, Siti Halma
Technical Session 1.2
Enhanced Room-Temperature Formaldehyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor

Jun, Chua
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Jun, Jessie
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Jusoh, Ahmad
Technical Session 6.1
Deep Learning for Spectrum Sensing in Cognitive Radio Networks

K

Ke, Feng
Technical Session 1.5
Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks

Kesarajah, S.
Technical Session 5.1
Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications

Khairol Afandi, Muhammad
Technical Session 1.2
Enhanced Room-Temperature Formaldehyde Detection Using Tungsten Disulfide Functionalized Tapered Optical Microfiber Sensor

Khairuman, Ahmad
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Kipli, Kuryati
Technical Session 5.3
Asymmetrical Silicon-On-Insulator Rib Waveguide For Optical Directional Coupler

Kram, Abdul Rahman
Technical Session 5.3
Asymmetrical Silicon-On-Insulator Rib Waveguide For Optical Directional Coupler

Kuppusamy, Giva
Technical Session 3.4
IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models

L

Lee, Hui Shan
Technical Session 2.3
Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model

Lee, It Ee
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

Lee, Kim Yee
Technical Session 4.1
QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks

Lee, Sin Yee
Technical Session 2.3
Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model

Lee, Ying Loong
Technical Session 1.5
Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks
Technical Session 4.1
QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks

Lee, Yong-Hong
Technical Session 4.1
QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks

Leow, Chee Yen
Technical Session 2.6
AI-Enhanced Dual-Source Collaborative Perception and Multi-Objective Optimised Hybrid Control for Low-Cost HGV Platooning Systems

Leow, Pei Ling
Technical Session 2.6
AI-Enhanced Dual-Source Collaborative Perception and Multi-Objective Optimised Hybrid Control for Low-Cost HGV Platooning Systems

Li, Lu
Technical Session 5.2
Indoor Millimeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surfac
Technical Session 8.4
An Optimal FOCS Algorithm for Reducing Network Usage in Fog Computing Environments

Li, Yang
Technical Session 1.5
Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks

Luen, Tang Khai
Technical Session 2.6
AI-Enhanced Dual-Source Collaborative Perception and Multi-Objective Optimised Hybrid Control for Low-Cost HGV Platooning Systems

M

M, Surendar
Technical Session 4.4
Tensor-Based Joint Active-Support OMP Channel Estimation for IRS-aided Multi-user MIMO Systems

M.Sani, Maizura
Development of a Solar-Powered IoT Magnetic Field Monitoring System

Mahmood, Tahreer
Technical Session 5.5
Employing the Dinkel-Bach and Quadratic-Transform Optimization Framework to Maximize Energy Efficiency in a Half-Duplex Multiuser Massive MIMO Integrated with a relay system

Mansor, Mohd Fais
Technical Session 2.5
Design Of An 8-Element Controlled Reception Pattern Antenna (CRPA) Patch Array with Defected Ground Structure (DGS) For Anti-Jamming Applications
Technical Session 2.4
Development of Software-Defined Radio-Based Radar and Jamming Simulators

Maran, Kirtanan
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Md Daud, Nur Irdina
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease

Md Sani, Zamani
Technical Session 8.4
An Optimal FOCS Algorithm for Reducing Network Usage in Fog Computing Environments

Mendoza, Hazel
Technical Session 3.1
DAMIDS: Distance and Mobility-based Intrusion Detection System for Wormhole Attacks in Vehicular Ad hoc Networks

Mohamad, Mas Haslinda
Technical Session 3.3
Performance Evaluation of an SDR-Based LoRa Receiver for Industrial Telemetry in Indoor NLOS Environments

Mohammed, Mohammed
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

Mohd, M Syaifuddin
Technical Session 7.4
Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies

Mohd Farish, Muhammad
Technical Session 8.5
Lightweight Hybrid Machine Learning-Based Intrusion Detection for SIP-Based VoIP Network Against DoS and DDoS Attacks

Mohd Hassan, Siti Maisurah
Technical Session 1.4
Coverage and Availability Analysis of Direct-to-Device Satellite Connectivity in Rural Malaysia

Mohd Ibrahim, Imran
Technical Session 3.3
Performance Evaluation of an SDR-Based LoRa Receiver for Industrial Telemetry in Indoor NLOS Environments
Technical Session 5.1
Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications

Mohd Marzuki, Azah Syafiah
Technical Session 1.4
Coverage and Availability Analysis of Direct-to-Device Satellite Connectivity in Rural Malaysia

Mohd Nor Fahmi, Muhammad Dani Ikhwan
Technical Session 7.3
Performance Analysis of Naive Bayes Network Traffic Classification for NOC Environments

Morshidi, Malik Arman
Technical Session 6.1
Deep Learning for Spectrum Sensing in Cognitive Radio Networks

Muhammad, Nor Aishah
Technical Session 8.2
Towards Adaptive MEC-IoV Orchestration: A Comparative Study of DDPG, SAC, and PPO
Technical Session 5.2
Indoor Millimeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surface

N

Nael, Zul
Technical Session 4.6
Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks

Nani Fadzlina, Naim
Technical Session 1.1
Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables

Ng, Charn Loong
Technical Session 8.3
The Advancement of In-vehicle Network Protocols for Future Mobility

Nila, Farzana Sharmin
Technical Session 7.3
Performance Analysis of Naive Bayes Network Traffic Classification for NOC Environments

Noman, Hafiz Muhammad Fahad
Technical Session 4.6
Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks

Noordin, Kamarul Ariffin
Technical Session 4.6
Deep Learning-based Mode Selection for Throughput Optimization in Device-to-Device (D2D)-Assisted 6G Networks

Nordin, Rosdiadee
Technical Session 2.2
Spatio-Temporal Synthetic 6G IoT Traffic Modelling For Smart Cities Applications: A Sunway City Case Study

O

Obeng, Kobby
Technical Session 8.2
Towards Adaptive MEC-IoV Orchestration: A Comparative Study of DDPG, SAC, and PPO

Outay, Fatma
Technical Session 7.2
A Comprehensive Framework for Context-Aware Driving Risk Mitigation

P

Pedrasa, Jhoanna
Technical Session 3.1
DAMIDS: Distance and Mobility-based Intrusion Detection System for Wormhole Attacks in Vehicular Ad hoc Networks
Technical Session 3.2
Multilayer Perceptron for Intrusion Detection in Intelligent Transport Systems

Phua, Yeong Nan
Technical Session 4.1
QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks

R

Rafique, Majid
Technical Session 8.4
An Optimal FOCS Algorithm for Reducing Network Usage in Fog Computing Environments

Ramamoorthy, Suganya
Technical Session 3.4
IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models

Roslee, Mardeni
Technical Session 1.4
Coverage and Availability Analysis of Direct-to-Device Satellite Connectivity in Rural Malaysia

S

S. Abdul Kadir, Ros Shilawani
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease

Sabapathy, Sundaresan
Technical Session 4.4
Tensor-Based Joint Active-Support OMP Channel Estimation for IRS-aided Multi-user MIMO Systems

Saeed, Sohail
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

Sahwan, Abbas
Technical Session 5.4
Class-Imbalance-Aware Quantum Intrusion Detection for IoT and IoV Networks: Class-Wise Focal Loss Training of VQC

Saleh, Nur Luqman
Technical Session 2.1
Transfer Learning for Radar-Aided mmWave Beam Prediction Under Base Station Relocation

Sali, Aduwati
Technical Session 2.1
Transfer Learning for Radar-Aided mmWave Beam Prediction Under Base Station Relocation

Salsabila, Saraban
Technical Session 7.4
Optimal Parking Depot Selection for Autonomous Electric Vehicle Fleets Using Multi-Algorithm Assignment Strategies

Samad, Abdul
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

Sarijari, Mohd Adib
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

Sarnin, Suzi
Technical Session 1.1
Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease

Saroni, Muhammad
Technical Session 7.1
Development of a Solar-Powered IoT Magnetic Field Monitoring System

Shahar, Muhammad Ikhwan
Technical Session 5.2
Indoor Millimeter-Wave Propagation Enhancement Using Reconfigurable Intelligent Surface

Sheraz, Muhammad
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

Shukor, Nurul
Technical Session 6.4
Real-time Road Sign Recognition Using Faster R-CNN and Rule-Based Decision

Subahir, Suhaila
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease

Sulaiman, Noor Hafizah
Technical Session 5.1
Dual-beam High Gain Reflectarray Antenna at 28 GHz and 38 GHz for 5G Applications

Supian, Latifah
Technical Session 1.3
Sensitivity Analysis of Refractive Index POF Sensor for Liquid Contamination Detection

Suryanegara, Muhammad
Technical Session 4.3
Impact of Backhaul Architecture on Operational Carbon Emission in 5G Heterogeneous Networks
Technical Session 3.5
KPI Threshold Determination for QoE Optimization in 5G FWA Networks: A Case Study in Indonesia

Syed Ariffin, Sharifah
Technical Session 8.2
Towards Adaptive MEC-IoV Orchestration: A Comparative Study of DDPG, SAC, and PPO
Technical Session 5.4
Class-Imbalance-Aware Quantum Intrusion Detection for IoT and IoV Networks: Class-Wise Focal Loss Training of VQC

T

Tan, Kok Eng
Technical Session 2.3
Assessing Digital Financial Inclusion in Indonesia Using a Decision Tree Machine Learning Model

Tham, Mau Luen
Technical Session 1.5
Efficient User Association and Aerial Base Station Deployment for Aerial-Terrestrial Networks

Thiagarajah, Siva Priya
Technical Session 7.3
Performance Analysis of Naive Bayes Network Traffic Classification for NOC Environments

U

Umar, Abdullah
Technical Session 2.2
Spatio-Temporal Synthetic 6G IoT Traffic Modelling For Smart Cities Applications: A Sunway City Case Study

V

V, Baranidharan
Technical Session 4.4
Tensor-Based Joint Active-Support OMP Channel Estimation for IRS-aided Multi-user MIMO Systems

Vijean, Vikneswaran
Technical Session 3.4
IoT-Based Anomaly Detection and Real-Time Monitoring of a Paddle Wheel Motor Using Vibration Sensors with Machine Learning Models

W

Wan Hassan, Wan Haszerila
Technical Session 8.1
Internet of Things Enabled System for Fall Detection and Remote Caregiver Notification

Wan Muhamad, Wan Norsyafizan
Technical Session 6.5
Performance and Sensitivity Analysis of Basic CNN and ResNet50 for Paddy Leaf Disease

Widhi Prabowo, Vinsensius Sigit
Technical Session 4.3
Impact of Backhaul Architecture on Operational Carbon Emission in 5G Heterogeneous Networks

Wong, Clement Teck Zhen
Technical Session 4.1
QoS-Aware UAV-BS Deployment with Uplink Power Control for Energy-Efficient Aerial Networks

Wulandari, Asri
Technical Session 3.5
KPI Threshold Determination for QoE Optimization in 5G FWA Networks: A Case Study in Indonesia

Y

Ya'acob, Norsuzila
Technical Session 1.1
Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables

Yahya, Sanarya
Technical Session 6.3
Delay-Aware Handover-Controlled Relay Switching in FANET-Based UAV Swarms Using CTDE-MARL

Yap, Chee Fai
Technical Session 8.3
The Advancement of In-vehicle Network Protocols for Future Mobility

Yeoh, Chun Yeow
Technical Session 4.2
A Parameter-Matched Comparison of Quantum and Classical TD3 Actors for Pinching-Antenna Activation in MEC

Z

Zainuddin, Aznilinda
Technical Session 7.1
Development of a Solar-Powered IoT Magnetic Field Monitoring System

Zamhari, Nurdiani
Technical Session 5.3
Asymmetrical Silicon-On-Insulator Rib Waveguide For Optical Directional Coupler

Zan, Mohd Saiful Dzulkefly
Technical Session 1.1
Modelling and Simulation of Transmitter and Receiver Modules for Fault Localization in Underground Supervisory Control (Pilot) Cables

APPRECIATION

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Malaysia

Adam Wong Yoon Khang
Universiti Teknikal Malaysia Melaka
Malaysia

Siti Normi Zabri
Universiti Teknikal Malaysia Melaka
Malaysia

Suraya Zainuddin
Universiti Teknikal Malaysia Melaka
Malaysia