



2026 IEEE INDUSTRIAL ELECTRONICS AND APPLICATIONS CONFERENCE

PROGRAMME BOOK

KUALA LUMPUR MALAYSIA

7 to 8 September 2026

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IEACon 2026

2026 IEEE Industrial Electronics and Applications Conference

**JW MARRIOTT HOTEL KUALA LUMPUR, MALAYSIA
7 to 8 September 2026**

CONTENT

WELCOME MESSAGE.....iii

ORGANIZING COMMITTEE.....iv

REVIEWERS.....v

TECHNICAL PROGRAM.....ix

 Monday, September 7.....x

 Tuesday, September 8.....xiii

AUTHORS INDEX.....xxii

INDUSTRY PARTNERSxxviii

WELCOME MESSAGE

It is our great pleasure to welcome you to the 7th edition of the IEEE Industrial Electronics and Applications Conference (IEACon 2026), taking place in Kuala Lumpur, Malaysia, from 7th to 8th September 2026. Organized by the IEEE Malaysia Industrial Electronics (IE) and Industrial Applications (IA) Joint Chapter, and technically co-sponsored by the IEEE Industry Applications Society, IEACon has significantly established itself as a premier event in the field of industrial electronics and applications.

The primary objective of IEACon 2026 is to provide a platform for high-quality research and professional interactions aimed at advancing science, technology and community. This year's conference features a keynote address from the invited distinguished expert, technical paper presentations, and opportunities for professional networking that encourage meaningful engagement and knowledge exchange.

We are honoured to welcome Dr. Sivaneasan Bala Krishnan, from Singapore Institute of Technology, and who is currently IEEE Industry Applications Society (IAS) Prominent Lecturer for IEEE Region 10, to deliver a keynote on "Unlocking the Power of Parked EVs: Lessons from Building a Vehicle-to-Grid Testbed". Dr. Sivaneasan will present the development of a V2G testbed to explore how EVs can help reduce peak demand, enhance grid stability, and participate in energy markets.

In addition, IEACon 2026 will present Special Session on "6G Security and Resilience for Next-Generation Industrial Applications", featuring international contributions with the main aim to explore advanced security frameworks and resilience technologies tailored for 6G-enabled industrial environments. Interestingly, IEACon 2026 is receiving full support from industries through participation from Quantel Global Sdn. Bhd., Infomatic Pte. Ltd. (Singapore) and RF Station Sdn. Bhd., which should increase visibility, authentic connections with expert speakers and participants, and opportunities to foster credibility and growth.

We are delighted to host IEACon 2026 in the vibrant city of Kuala Lumpur, Malaysia's capital and cultural hub. Kuala Lumpur offers a unique blend of tradition and modernity, with rich experiences reflecting Malaysia's diverse cultural heritage. From iconic skyscrapers to historical landmarks, KL promises to be a captivating backdrop for this year's conference.

We extend our heartfelt thanks sincere appreciation to all authors for their valuable contributions, to the Technical Program Committee and reviewers for their dedication, and to our partners and sponsors for their support in making this conference possible. We hope the conference will provide you with enriching experiences, networking opportunities, and valuable insights.

We look forward to welcoming you to Kuala Lumpur and trust that you will enjoy the conference and the city's attractions.

Thank you.

MOHD AMRAN MOHD RADZI

General Chair

2026 IEEE Industrial Electronics and Applications Conference (IEACon 2026)

ORGANIZING COMMITTEE

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Nadim Reza (Rajshahi University of Engineering and Technology, Bangladesh)
Nedim Tutkun (Istanbul Ticaret University, Turkey)
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Shivaram T R (Research, India)
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Zeeshan Ahmad Arfeen (Universiti Teknologi Malaysia, Malaysia)
Ziheng Xiao (Nanyang Technological University, Singapore)

TECHNICAL PROGRAM

Time (Kuala Lumpur)	Room: Bintang 3, Level 3	Room: Bintang 4, Level 3
Monday, September 7		
08:00-08:45	Registration	
08:45-09:00	Welcoming Speech	
09:00-10:00	Keynote Session Unlocking the Power of Parked EVs: Lessons from Building a Vehicle-to-Grid Testbed	
10:00-10:20	Announcement and Best Paper Award Presentation	
10:20-10:30	Group Photo Session	
10:30-10:45	Morning Break	
10:45-12:15	Special Session on 6G Security and Resilience for Next-Generation Industrial Applications	
12:15-12:30	Industry Connect Bridging Innovation and Application	
12:30-14:00	Lunch and Networking Session at Shook! Level LG	
14:00-15:30	Industrial Automation, Communication, Networking and Informatics	
15:30-15:45	Afternoon Break	
15:45-17:30	Power Systems and Smart Grids 1	
19:45-21:45	Conference Dinner with Cultural Performance & Live Band at Bintang 6, Level 4 (Excludes Student Registration)	
Tuesday, September 8		
08:00-08:30	Registration	
08:30-10:30	Renewable Energy	Power Electronics 1
10:30-10:45	Morning Break	
10:45-13:00	Power Systems and Smart Grids 2	Control Systems, Robotics and Mechatronics
13:00-14:00	Lunch and Networking Session at Shook! Level LG	
14:00-15:30	Signal and Image Processing and Computational Intelligence 1 / Industrial Electronics and Applications	Electronic Systems on Chip and Embedded Control / Sensors, Actuators and Micro- Nanotechnology
15:30-15:45	Afternoon Break	
15:45-17:30	Signal and Image Processing and Computational Intelligence 2	Power Electronics 2 / Cloud Computing, Big Data and Software Engineering / Electrical Machines and Drives / Engineering Education
17:30	End of conference	

Monday, September 7, 2026

Session : Keynote
Title : Unlocking the Power of Parked EVs: Lessons from Building a Vehicle-to-Grid Testbed
Presenter : Associate Professor Dr Sivaneasan Bala Krishnan (Singapore Institute of Technology)
Time : 9:00am - 10:00am
Room : Bintang 3, Level 3
Session Chair : Ts. Dr. Wan Noraishah Wan Abdul Munim (Universiti Teknologi MARA, Malaysia)

Abstract

Electric vehicles (EVs) are widely recognized as clean modes of transportation, yet when parked, they also represent a flexible source of stored energy that can support the electricity grid. This concept, known as Vehicle-to-Grid (V2G), enables EVs not only to draw power from the grid but also to supply power back when needed. However, realizing V2G in everyday practice requires coordinated progress in charging technology, communication standards, and business models that benefit both EV owners and service providers. This keynote presents the development of a V2G testbed to explore how EVs can help reduce peak demand, enhance grid stability, and participate in energy markets. The speaker will highlight key challenges observed during the deployment, such as ensuring smooth interoperability among different hardware and software systems, charging management system and identifying operational scenarios where V2G provides clear economic and environmental value.

10:00am - 10:20am : Announcement and Best Paper Award Presentation

10:20am - 10:30am : Group Photo Session

10:30am - 10:45am : Morning Break

Date : Monday, September 7
Time : 10:45 - 12:15 (Asia/Kuala_Lumpur)
Session : S11: Special Session on 6G Security and Resilience for Next-Generation Industrial Applications
Room : Bintang 3, Level 3
Chair : Mohd Amran Mohd Radzi (Universiti Putra Malaysia)

10:45 Gossip-Contrastive Learning for Stable Network Intrusion Detection in Fully-Distributed Environments

Ye-eun Kim (University of Science and Technology, Korea (South)); Cheolhee Park and Soohyung Kim (ETRI, Korea (South))

11:00 Zero Trust-Aligned Multi-Layer Security Framework for O-RAN

Seongmin Park and Daeun Kim (Korea Internet & Security Agency, Korea (South)); Haeryong Park (KISA, Korea (South))

11:15 Security Analysis of UE Information Exfiltration via Malicious O-CU in OpenRAN Environments

Daeun Kim, Kim Jin Gang and Seongmin Park (Korea Internet & Security Agency, Korea (South))

11:30 Performance Analysis of Anomaly Detection in 6G Open Radio Access Networks

Haesik Kim (VTT Technical Research Centre of Finland, Finland); Cheolhee Park (ETRI, Korea (South)); Kyungmin Park (Electronics and Telecommunications Institute, Korea (South)); Soohyung Kim (ETRI, Korea (South)); Jonghyun Kim (Sejong University, Korea (South))

11:45 Dual-Head GraphSAGE Ensemble with Reconstruction and Discriminative Learning for Class-Imbalanced IoT Intrusion Detection

Hansol Cha (Korea (South)); Jonghyun Kim (Sejong University, Korea (South))

12:00 DAS: Distributed Authentication System Against Fake Base Station Attacks

YoonSun Han and Seog Chung Seo (Kookmin University, Korea (South))

Date : Monday, September 7
Time : 12:15 - 12:30 (Asia/Kuala_Lumpur)
Session : Industry Connect Bridging Innovation and Application
Room : Bintang 3, Level 3
Chair : Shamsul Aizam Zulkifli (Universiti Tun Hussein Onn Malaysia, Malaysia)

12:15 RF Station

Norsatina Mohd Kassim (RF Station)

12:20 Infomatic Pte. Ltd. (Singapore)

Olivier Wu Chien-Ming (Infomatic Pte. Ltd.)

12:25 Quantel Global Sdn. Bhd.

Nigel Lam (Quantel Global Sdn. Bhd.)

12:30pm - 14:00pm : Lunch and Networking Session at Shook! Level LG

Date : Monday, September 7
Time : 14:00 - 15:30 (Asia/Kuala_Lumpur)
Session : S12: Industrial Automation, Communication, Networking and Informatics
Room : Bintang 3, Level 3
Chair : Muhammad Zain Siddiqi (Swinburne University of Technology, Sarawak Campus, Malaysia)

14:00 AI-Powered Early Warning System for Harmful Algal Blooms: An Intergrated Approach to Aquatic Food Security

Ahmad Anwar Zainuddin (International Islamic University Malaysia, Malaysia & IIUM, Malaysia); Nik Nor Muhammad Saifudin Nik Mohd Kamal (Kulliyyah of Information and Communication Technology (KICT), Malaysia & International Islamic University Malaysia, Malaysia); Amir Hussin and Mohd Izzuddin Mohd Tamrin (International Islamic University Malaysia, Malaysia); Krishnan Subramaniam (INTI International College, Penang, Malaysia); Siti Fairuz Nurr Sadikan (Universiti Teknologi MARA, Malaysia)

14:15 Enhanced Secure Deep Learning Framework: Ensemble-Based Image Classification with Cryptographic Protection and Explainable AI

Jawad Ahmad, Muhammad Ali Ameer Shah and Muhammad Zulkifl Hasan (University of Central Punjab, Pakistan); Muhammad Zunnurain Hussain (Bahria University Lahore Campus, Pakistan & Bahria University, Pakistan)

14:30 Design and Development of Raiots: A Secure Mobile-App for Hand Gesture Rehabilitation Using Iot-Enabled Healthcare Framework

Ahmad Anwar Zainuddin and Hani Manoj (International Islamic University Malaysia, Malaysia & IIUM, Malaysia); Mohd Izzuddin Mohd Tamrin (International Islamic University Malaysia, Malaysia); Saidatul Izyanie Kamarudin (Universiti Teknologi MARA, Malaysia); Krishnan Subramaniam (INTI International College, Penang, Malaysia); Siti Fairuz Nurr Sadikan (Universiti Teknologi MARA, Malaysia); Nik Nor Muhammad Saifudin Nik Mohd Kamal (Kulliyah of Information and Communication Technology (KICT), Malaysia & International Islamic University Malaysia, Malaysia)

14:45 AI-Based Predictive Maintenance of Industrial Equipment Using Sensor Data and Machine Learning

Mohamad Adhwa bin Roslan (Universiti Teknologi Mara, Malaysia); Wan Noraishah Wan Abdul Munim, Rahimi Baharom, Khairul Safuan Muhammad and Norazlan Hashim (Universiti Teknologi MARA, Malaysia)

15:00 Towards Smart Home Systems: RIS-Enabled mmWave C-IoT Networks

Muhammad Zain Siddiqi (Swinburne University of Technology, Sarawak Campus, Malaysia)

15:15 Wide Applications of Centralized Protection and Control (CPC) in Digital Substation and Automation

Fitriah Binti Shafei (Petronas, Malaysia); A KARIM BIN A RAHMAN (PETRONAS, Malaysia); Azwanizam Che A Rahman (Malaysia); M Zulhilmie Bin Mat Kana, Ts. Wan Azura Binti Mohd Azhar and W Zulfadzli Bin Wan Zaki (PETRONAS, Malaysia); A Rahman Bin Waruah Matollah (Petronas, Malaysia)

15:30pm - 15:45pm : Afternoon Break

Date : Monday, September 7
Time : 15:45 – 17:30 (Asia/Kuala_Lumpur)
Session : S13: Power Systems and Smart Grids 1
Room : Bintang 3, Level 3
Chair : Ramani Kannan (Universiti Teknologi Petronas, Malaysia)

15:45 Technology Review on Adaptive Synthetic Inertia Control Framework for Industrial Smart Grids Using TRIZ-PLR

Zulhasni Bin Abdul Rahim and Muhammad Saqib Iqbal (Universiti Teknologi Malaysia, Malaysia)

16:00 A Pelican Optimized Heterogeneous Ensemble Framework for DC Series Arc Fault Detection

Maveeya Baba (Universiti Teknologi Petronas, Malaysia); Nursyarizal Bin Mohd Nor, M Zuraimi Rahman, Musa B M Yusuf and Noralyza Tamjis (Universiti Teknologi Petronas, Malaysia)

16:15 Ramp-Enhanced Asymmetric Loss Function for Ultra-Short-Term Solar Power Forecasting with XGBoost

Chang Zhe Hao and Ke Yi Kuan (Delta Electronics Inc., Taiwan); Yang Jen Ming (Delta Electronics, Inc., Taiwan)

16:30 Degradation-Aware Pricing and Operation of Shared Energy Storage in Park Integrated Energy Microgrids Under Photovoltaic Uncertainty

Bingzhe Fu, Wei Wang and Yihuan Li (North China Electric Power University, China); Jian Yang (Tsinghua University, China)

16:45 Evaluation of Power Factor Correction Converter Control to Mitigate Harmonic Voltage Distortion in Distribution Networks

Ken-ichi Kondo, Yuito Uenishi and Shunsuke Ohashi (Kansai University, Japan)

17:00 An Embedded Digital Detector for Securing AGC Signals: Architecture, Prototype, and HIL Validation

Mohammad Yasir Nazir, Pulakraj Aryan and Abdul Saleem Mir (Indian Institute of Technology, Roorkee, India); Thanga Raj Chelliah (Indian Institute of Technology Roorkee, India)

17:15 Seamless Switching Method Between Grid Forming and Grid Following Control for Grid Connected

Bessam Deboucha (Universiti Malaya, Malaysia); Houssam Deboucha (University of Bejaia, Algeria); Saad Mekhilef (Swinburne University of Technology, Australia); Marizan Mubin and Kok Soon Tey (University of Malaya, Malaysia); Faizal Arya Samman (University of Hasanuddin, Indonesia)

19:45pm - 21:45pm : Conference Dinner with Cultural Performance & Live Band at Bintang 6, Level 4

Tuesday, September 8

Date : Tuesday, September 8
Time : 8:30 - 10:30 (Asia/Kuala_Lumpur)
Session : S21: Renewable Energy
Room : Bintang 3, Level 3
Chair : Muhammad Ammirul Atiqi Mohd Zainuri (Universiti Kebangsaan Malaysia, Malaysia)

8:30 Exploring Low-Speed Wind Energy Potential: A Case Study of a Savonius Vertical Axis Wind Turbine at Parangtritis Beach, Indonesia

Rizki Nurilyas Ahmad, Nur Fatkhiyaturrosidah and Ramzul Irham Riza (Universitas Muhammadiyah Surakarta, Indonesia)

8:45 A Systematic Literature Review of Triboelectric Nanogenerators for Wearable Energy Harvesting

Ili Farhana Mohamad Ali Nasri and Nuraliza Noorawzi (Universiti Kuala Lumpur Malaysian Institute of Aviation Technology, Malaysia); Wan Nursheila Wan Jusoh (Malaysian Institute of Aviation Technology, Malaysia & Universiti Kuala Lumpur, Malaysia); Ridwan Yahaya and Shaiful Bahri Zainal Abidin (Science and Technology Research Institute for Defence, Malaysia)

9:00 Performance of TENG Device by Varying Kapton Tape Thickness as Charge Generating Layer

Muhd Qayyum Azhad Zamaruddin, Lyly Nyl Ismail and Habibah Zulkefle (Universiti Teknologi MARA, Malaysia); Norsabrina Sihab (Universiti Teknologi MARA Cawangan Pulau Pinang, Malaysia); Nur Sa'adah Muhamad Sauki (Universiti Teknologi MARA, Cawangan Pulau Pinang, Malaysia); Mohd Abdul Talib Mat Yusoh (Universiti Teknologi MARA (UiTM), Malaysia)

9:15 IPRISM: A Cascaded Logistic Search Algorithm for Ultra-Fast Global MPPT Under Partial Shading

Mohammed Abujarad and Abdallah Abdellatif (Universiti Malaya, Malaysia); Saad Mekhilef (Swinburne University of Technology, Australia); Kok Soon Tey and Marizan Mubin (University of Malaya, Malaysia); Mehdi Seyedmahmoudian (Swinburne University of Technology, Australia)

9:30 Numerical Analysis of Two-State Core-Surface Enhanced Single Particle Model for Capturing Thermal Gradients in Lithium-Ion Batteries

David Enemali Abah, Ramani Kannan and Hanis Farhah Jamahori (Universiti Teknologi Petronas, Malaysia)

9:45 Performance Enhancement of Partial Shaded Solar PV Array Using Self-Restorative Method

D Prince Winston (Kamaraj College of Engineering and Technology, India); Arulkumar Annamalaichamy (Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India); Palpandian Murugesan (AAA College of Engineering and Technology, Sivakasi, Tamil Nadu, India); Kalai Vani Solaisamy (Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India); Praveen Kumar Balachandran (Vardhaman College of Engineering, India); Muhammad Ammirul Atiqi Mohd Zainuri (Universiti Kebangsaan Malaysia, Malaysia)

10:00 Surface-Modified PDMS/Al Triboelectric Nanogenerators for Resonance-Based Energy Harvesting

Emaediong Sylvanus Udofa (Universiti Teknologi Malaysia, Malaysia); Mohamed Sultan Mohamed Ali (Qatar University, Qatar); Pei Ling Leow (Universiti Teknologi Malaysia, Malaysia); Jana Abdulrahim Al Bogha, Tasnim T. Halabi and Shahd Almansoori (Qatar University, Qatar)

10:15 Numerical Simulation of FTO/TiO₂/N719/MXene-PEDOT: PSS DSSC Using COMSOL Multiphysics

Nurul Najihah Ishak (Universiti Teknologi Malaysia, Malaysia); Mohamed Sultan Mohamed Ali (Qatar University, Qatar); Herlina Abdul Rahim and Pei Ling Leow (Universiti Teknologi Malaysia, Malaysia)

10:30am - 10:45am : Morning Break

Date : Tuesday, September 8
Time : 8:30 - 10:30 (Asia/Kuala_Lumpur)
Session : S22: Power Electronics 1
Room : Bintang 4, Level 3
Chair : Khairul Safuan Muhammad (Universiti Teknologi MARA, Malaysia)

8:30 Technological Evolution of High-Frequency Wireless Power Transfer for Electric Vehicles: Bibliometric Mapping and Engineering Insights Toward Standardized Deployment

Samshul Munir Muhamad (Universiti Teknologi MARA Cawangan Pulau Pinang, Malaysia); Wan Muhammad Hakimi Wan Bunyamin and Rahimi Baharom (Universiti Teknologi MARA, Malaysia)

8:45 Light Load Efficiency Improvement of a Bidirectional CLLC Resonant Converter by Use of a Modified Antiresonant Circuit

Achariya Kuneepong and Sompob Polmai (King Mongkut's Institute of Technology Ladkrabang, Thailand)

9:00 Comparative Study on Dynamically Changing Noise Characteristics of Suppressed Noise Inverter by Means of Wavelet Transform

Atsushi Hirota (National Institute of Technology, Akashi College, Japan)

9:15 A Series-Resonant Zero-Current Switching Bridgeless Boost PFC Rectifier with Reduced Switch Current Stress

Khairul Safuan Muhammad, W. Nurdzulhelmy Hakim W. Zulkifli, Wan Noraishah Wan Abdul Munim, Rahimi Baharom, Norazlan Hashim and Mohammad Nawawi Seroji (Universiti Teknologi MARA, Malaysia)

9:30 High-Power High-Frequency Input-Parallel-Output-Series Dual Active Bridge Converter Design for Wide Output Voltage Range Application

Tung Tan Nguyen and Hsiao-Chin Yen (National Taiwan University of Science and Technology, Taiwan); Man Hay Pong (NTUST, Taiwan); Huang-Jen Chiu (National Taiwan University of Science and Technology, Taiwan)

9:45 Peak Current Control with Novel Cogs-Inspired Approach for Interleaved Flyback Boundary Conduction Mode Switching

Muhamad Faizal Yaakub (Universiti Teknikal Malaysia Melaka, Malaysia); Mohd Amran Mohd Radzi (Universiti Putra Malaysia, Malaysia); Maaspaliza Azri (Faculty of Engineering & UTeM Malacca, Malaysia); Suhaidi Shafie (UPM, Malaysia); Norhafiz Azis (Universiti Putra Malaysia & Centre for Electromagnetic and Lightning Protection Research, UPM, Malaysia); Faridah Hanim Mohd Noh (Universiti Tun Hussien Onn Malaysia, Malaysia)

10:00 Modelling and Control Design Methodology for Boost Converter in PV Applications

Jerome Ignatius Yi Xian Yuen and Freddy Kheng Suan Tan (University of Nottingham Malaysia, Malaysia)

10:15 Single Stage OLTC Based High Resolution Multilevel Inverter for Solar PV Application

Neha Tak (Birla Institute of Technology and Science, India); Rishabh Kumar Sharma (Indian Institute of Technology (IIT) Delhi, India); Sumit Kumar Chattopadhyay (Indian Institute of Technology Delhi, India)

10:30am - 10:45am : Morning Break

Date : Tuesday, September 8
Time : 10:45 - 13:00 (Asia/Kuala Lumpur)
Session : S23: Power Systems and Smart Grids 2
Room : Bintang 3, Level 3
Chair : Md. Abdur Razzak (Independent University, Bangladesh)

10:45 Ensemble Decision Tree Model for Wind Speed Prediction Using LiDAR Data in Saudi Arabia

Md Shafiullah (King Fahd University of Petroleum & Minerals, Saudi Arabia)

11:00 Enhancing Distribution System Monitoring Using Successive Linearization Matrix Completion

Mohammed Ansar Mohammed Manaz (National Sun Yat-Sen University, Taiwan); Meng-Lei Lu (LITE-ON Technology Corporation, Taiwan); Chan-Nan Lu (National Sun Yat-sen University, Taiwan)

11:15 Improved Integrated Power Ripple Elimination for Grid-Connected Inverters Under Unbalanced Grid Conditions

Azri Sham, Ahmad Afif Nazib and Mohd Azrik Roslan (Universiti Malaysia Perlis, Malaysia)

11:30 Pareto-Optimal Intelligent Control for Standalone PV-BESS Microgrids: Voltage Regulation Versus Levelized Cost Trade-Offs

Aysa Siddika Esha (Independent University, Bangladesh, Bangladesh); Nadim Reza (Rajshahi University of Engineering and Technology, Bangladesh); Md. Abdur Razzak (Independent University, Bangladesh, Bangladesh)

11:45 Enhanced Load Frequency Control in Renewable Interconnected Power Systems Using Robust Fractional-Order Predictive PID with Derivative Filter and SMES

Md. Shahan Sarker and Md. Abdur Razzak (Independent University, Bangladesh, Bangladesh)

12:00 Forecast-Driven Techno-Economic Optimization of Hydrogen-Integrated on-Grid and off-Grid Hybrid Microgrids for Flood-Prone Regions in Bangladesh

Kawsar Ahmed Refat, Md. Abdur Razzak and Md.Wajed Ali (Independent University, Bangladesh, Bangladesh); Md. Feroz Ali (Pabna University of Science and Technology, Bangladesh)

12:15 Physics-Guided GA-LSTM Autoencoders for Feeder Transfer Detection: A Case Study on the IEEE 9500-Node Test Feeder

Allan Jay L Baco (Mindanao State University - Iligan Institute of Technology, Philippines & Cagayan Electric Power and Light Company, Inc., Philippines); Noel Estoperez (Mindanao State University - Iligan Institute of Technology, Philippines)

12:30 A New Approach to the Design of Power Supply for Industrial Enterprises

Elena N Sosnina, Rustam Bedretdinov and Anton Ivanov (Nizhny Novgorod State Technical University n. a. R. E. Alekseev, Russia)

12:45 Stochastic Demand Response Optimization for Industrial Smart Grids Under Real-Time Pricing and Wind Power Uncertainty

Roy Anderson Steven (Sarawak Energy Berhad, Malaysia); Muhammad Murtadha B. Othman and Muhammad Hasbi Azmi (Universiti Teknologi MARA, Malaysia)

13:00pm - 14:00pm : Lunch and Networking Session at Shook! Level LG
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Date : Tuesday, September 8
Time : 10:45 - 13:00 (Asia/Kuala_Lumpur)
Session : S24: Control Systems, Robotics and Mechatronics
Room : Bintang 4, Level 3
Chair : Hou Kit Mun (Universiti Tunku Abdul Rahman, Malaysia)

10:45 Reinforcement Learning-Assisted Tuning of Constrained Model Predictive Control Under Actuator Saturation in Urban Water Systems

Mahziar Parsapour, Muhamad Fahezal Ismail, Engku Ahmas Azrulhisham Engku Mohamed and Yusof bin Mohd Ekhsan (Mechatronics Engineering Technology Section, UniKL MFI); Noor Ayuni Che Zakaria (School of Mechanical Engineering, College of Engineering, Universiti Teknologi MARA (UiTM))

11:00 DQN-IK: Deep Reinforcement Learning for Virtual Robotic Systems with Realistic Motion Replicate and Haptic Feedback

Haripriya N (RMK Engineering College, India); Neelakandan Subramani (R.M.K. Engineerig College, India)

11:15 CaLiDD-MFF: Camera-LiDAR Data-Driven Multi-Feature Fusion for Pedestrian Detection in Autonomous Driving

Jin Yap Lim, Bukhary Ikhwan Ismail and Hou Kit Mun (Universiti Tunku Abdul Rahman, Malaysia)

11:30 Robust Control Based on Exact Linearization and Switching Control for Dynamic Positioning Systems

Masayoshi Toda (Tokyo University of Marine Science and Technology, Japan); Yoji Yasumoto (Kaiyo Denshi Kogyo Co., Ltd., Japan)

11:45 Cyber-Resilient Frequency Control of Time Delayed Hybrid Power System Using Physics Informed Modified Ratio-Control-Assisted Virtual Inertia

Pawan Kumar Pathak (Banasthali University, India); Anil Kumar Yadav (National Institute of Technology Hamirpur, India); Meghraj Morey (Government College of Engineering Amravati, India); Innocent Kamwa (University Laval, Canada)

12:00 YOLOv11-Based Defect Detection Method for Aero-Engine Turbine Blades

Junzhe Chen and Xiaoshan Gao (Beihang University, China)

12:15 RL-Based Multi-Intersection Traffic Signal Control: A Structured Survey of Trends and Open Deployment Challenges

Lamia Iftekhar and Mirza Sarwar Kamal (North South University, Bangladesh); Tirtom Huseyin (NK R&D Center, Japan); Javed Bari (North South University, Bangladesh)

12:30 Analysis of Humanoid Robot Movement Using Regression Models Based on Energy Consumption

Syed Farid Syed Adnan (Universiti Teknologi MARA, Malaysia)

12:45 Robust Sliding Mode and Admittance Control of Underactuated Aerial Manipulators for Contact-Based Inspection

Tareq Aziz Hasan Alqutami (Petronas Research Sdn Bhd, Malaysia & Heriot Watt University, United Kingdom (Great Britain)); Yves Petillot (HWU, United Kingdom (Great Britain)); Matthew Dunnigan and Mustafa Suphi Erden (Heriot-Watt University, United Kingdom (Great Britain))

13:00pm - 14:00pm : Lunch and Networking Session at Shook! Level LG

Date : Tuesday, September 8
Time : 14:00 - 15:30 (Asia/Kuala_Lumpur)
Session : S25: Signal and Image Processing and Computational Intelligence 1 / Industrial Electronics and Applications
Room : Bintang 3, Level 3
Chair : Noraishah Wan Abdul Munim (Universiti Teknologi MARA, Malaysia)

14:00 Evaluating User Intent in Visual Discovery Systems: A Cluster Analysis of High-Volume vs. High-Retention Content Aggregation Boards

Riddhi Attarde (MIT-WPU, India)

14:15 Resonant Frequency Prediction of Flexural Ultrasonic Transducers Using PSO-TVIW and Gradient-Optimized Deep Neural Networks

Liew Hui Fang (University Malaysia Perlis, Malaysia & FTKE, Malaysia)

14:30 Traffic Identification of Mobile Applications Based on Machine Learning

W Lin (Fuzhou University, China); XingShuo Han (Fuzhou University, China)

14:45 Gradient-Free Hybrid Fusion for Reference-Guided PCB Defect Localization

Rashadul Nafis Riyad and Syed Abrar Rafid (Universiti Teknologi Malaysia, Malaysia); Gianmarco Goycochea Casas (Federal University of Viçosa, Brazil); Zool Hilmi Ismail (Universiti Teknologi Malaysia, Malaysia)

15:00 Analysis-Based Design for EHD Pumps with Vertical Grid-Cylinder Electrodes and Enhanced Power Efficiency

Shintaro Hayashi, Nobuyuki Naoe and Ryoichi Hanaoka (Kanazawa Institute of Technology, Japan); Masaki Hisazumi and Seiichi Nishikawa (Kanden Engineering Corporation, Japan)

15:15 Fault Coverage Improvement in Full-Scan Circuits Using XOR-Based Test Point Insertion

Muhammad Harith Hairuddin (Universiti Teknologi Malaysia, Malaysia); Norlina Paraman (UTM, Malaysia)

15:30pm - 15:45pm : Afternoon Break

Date : Tuesday, September 8
Time : 14:00 - 15:30 (Asia/Kuala_Lumpur)
Session : S26: Electronic Systems on Chip and Embedded Control / Sensors, Actuators and Micro-Nanotechnology
Room : Bintang 4, Level 3
Chair : Abdul Manan Sheikh (A'Sharqiyah University, Oman)

14:00 A Framework for Discharge Time Prediction of Energy Storage Units Based on Coupled Dynamics and Multi-Factor Aging Models

Jiaye Yang, Hansheng Su and Wangzi Zhu (Panjin Campus of Dalian University of Technology, China)

14:15 A 1.8-5.7 V, 65nm CMOS PMU with 200mA Load Capability and -60°C to 158°C Operation for Industrial IoT Systems-on-Chip

Chan Ze Kai, Selvakumar Mariappan, Jagadheswaran Rajendran, Norhamizah Idros and Asrulnizam Abd Manaf (Universiti Sains Malaysia, Malaysia); Narendra Aridas (Universiti Malaya, Malaysia); Arokia Nathan (University of Cambridge, United Kingdom (Great Britain)); Siddik Yarman (Istanbul University, Turkey)

14:30 Thermal Analysis of 2.5D Chiplet-Based Packages with Various Substrates and Interposer Material Configurations Using CFD

Syafiqah Ruqaiyah Binti SaifulAzam and Hasliza Hassan (Universiti Tun Hussein Onn Malaysia, Malaysia); Izuan Amin Ishak (UTHM, Malaysia); Mohamad Amirur Rahman Azahar (Universiti Tun Hussein Onn Malaysia, Malaysia)

14:45 Statistical and Hardware Validation of Arbiter PUF for Secure and Energy Efficient IoT Devices

Abdul Manan Sheikh (A'Sharqiyah University, Oman); Md Rafiqul Islam (International Islamic University Malaysia, Malaysia); Mohamed Hadi Habaebi (International Islamic University Malaysia (IIUM), Malaysia); Adnan Kabbani (A'Sharqiyah University, Oman); Mazhar Hussain Baloch (A'Sharqiyah University Sultanate of Oman, Oman)

15:00 Integrated Numerical and Statistical Analysis of TSV Geometry Parameters for Thermal Optimization in 3D Chiplet Integration

Mohamad Amirur Rahman Azahar and Izuan Amin Ishak (Department of Mechanical Engineering Technology, Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia,); Hasliza Hassan and Syafiqah Ruqaiyah Binti SaifulAzam (Department of Electrical Engineering Technology, Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia,); Nurizzatul Atikha Rahmat (Faculty of Mechanical and Automotive Engineering Technology, Pekan Campus, Universiti Malaysia Pahang Al-Sultan Abdullah); Muammar Mukhsin Ismail (Universiti Tun Hussein Onn Malaysia, Malaysia)

15:15 Porous Shape Memory Polymer Composites: Structure-Property-Function Relationships for Adaptive Engineering Systems

Nusrat Hassan Khan (Universiti Teknologi Malaysia & FlexTTech Innovation Bhd, Malaysia); Mohamed Sultan Mohamed Ali and Muhammad E. H. Chowdhury (Qatar University, Qatar)

15:30pm - 15:45pm : Afternoon Break

Date : Tuesday, September 8
Time : 15:45 - 17:30 (Asia/Kuala_Lumpur)
Session : S27: Signal and Image Processing and Computational Intelligence 2
Room : Bintang 3, Level 3
Chair : Syed Farid Syed Adnan (Universiti Teknologi MARA, Malaysia)

15:45 CNN-Based Inorganic Waste Classification Integrated with Mobile Applications for Waste Bank Systems

Mohammad Nasrul Mubin and Muhammad Mizar Aiman Prasetya (Universitas Muhammadiyah Surakarta, Indonesia); Ratnasari Nur Rohmah (Universitas Muhammadiyah Surakarta, Indonesia)

16:00 CH-KAN: A Hybrid CNN-KAN Architecture in Hyperbolic Space for Brain Tumour Classification
Tai Qi Zheng (Tunku Abdul Rahman University of Management and Technology, Malaysia); Chi Wee Tan, Ts (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Chuk Fong Ho (Tunku Abdul Rahman University of Management and Technology, Malaysia)

16:15 Attention-Enhanced Real-Time Medical Sign Language Recognition Using YOLOv8
A Naga Nandhini and Gracia Rani (Thiagarajar College of Engineering, India)

16:30 Optimizing Temporal Efficient Networks for Embedded Keyword Spotting on Microcontrollers
Bojia Qin and Chang Soon Tony Hii (School of Artificial Intelligence and Robotics, Xiamen University Malaysia, Malaysia)

16:45 A Design Method for Variable Stopband FIR Filters with Specified Attenuation Based on Complex Approximation
Toma Miyata (Kanagawa Institute of Technology, Japan); Naoyuki Aikawa (Tokyo University of Science, Japan)

17:00 Effects of Distance Metrics and Dimensionality on AlynLOF and ARLOFF
Muhammad Yunus Iqbal Basheer (Universiti Teknologi MARA, Shah Alam, Malaysia); Azliza Mohd Ali and Sharifalillah Nordin (Universiti Teknologi MARA, Malaysia); Nurzeatul Hamimah Hamimah Abdul Hamid (Universiti Teknologi MARA & Faculty of Computer and Mathematical Sciences, Malaysia); Rozianawaty Osman (Universiti Teknologi MARA, Malaysia); Nooraini Yusoff (Universiti Malaysia Kelantan, Malaysia)

17:15 Lightweight YOLO-C2fCIB Model for Solder Joint Inspection in Electronics Manufacturing
Pochara Sermbootr and Ananta Sinchai (King Mongkut's Institute of Technology Ladkrabang, Thailand)

Date	: Tuesday, September 8
Time	: 15:45 - 17:30 (Asia/Kuala Lumpur)
Session	: S28: Power Electronics 2 / Cloud Computing, Big Data and Software Engineering / Electrical Machines and Drives / Engineering Education
Room	: Bintang 4, Level 3
Chair	: Shamsul Aizam Zulkifli (Universiti Tun Hussein Onn Malaysia, Malaysia)

15:45 A Single-Stage SPWM-Controlled Single-Phase Matrix Converter for Direct Grid-to-High-Frequency AC Conversion in Wireless Power Transfer Systems
Wan Muhamad Hakimi Wan Bunyamin (Universiti Teknologi MARA, Malaysia); Samshul Munir Muhamad (Universiti Teknologi MARA Cawangan Pulau Pinang, Malaysia); Wan Noraishah Wan Abdul Munim, Khairul Safuan Muhammad and Rahimi Baharom (Universiti Teknologi MARA, Malaysia)

16:00 FPGA Implementation of NTT for Dilithium Signature with on-the-Fly Twiddle Factor Computation
Yi Neng Chang, Wai Kong Lee and Shen Khang Teoh (Universiti Tunku Abdul Rahman, Malaysia)

16:15 Hedera Hashgraph-Based DAG Blockchain Traceability System for Agricultural Supply Chain: Design, Implementation, and Performance Evaluation

Oras Baker (Ravensbourne University London, United Kingdom (Great Britain)); Dobrila Lopez (School of Computing, Eastern Institute of Technology, New Zealand); Kasthuri Subaramaniam (Universiti Malaya, Malaysia); Sellappan Palaniappan (Help University, Malaysia)

16:30 Benchmarking Scalable Multivariate Cross-Sensor Relationship Discovery for Industrial Machines

Ken How Goh and Boon Yaik Ooi (Universiti Teknologi Petronas, Malaysia); Wai Kong Lee (Universiti Tunku Abdul Rahman, Malaysia); Chee Tak Gan (Axcell Solutions Sdn Bhd, Malaysia)

16:45 Experimental Evaluation of Levitation Load Capacity in a Levitation-Propulsion-Integrated Magnetic Levitation Transporter System

Shunsuke Ohashi (Kansai University, Japan); Akito Konishi (Kansai University, Japan); Daichi Uematsu (Kansai University, Japan); Ken-ichi Kondo (Kansai University, Japan)

17:00 IoT-Based Environmental Monitoring and Automated Control for Eco-Friendly Mushroom Cultivation in Student Engineering Project

Shamsul Aizam Zulkifli (UTHM, Malaysia & Universiti Tun Hussein Onn Malaysia, Malaysia); Muhammad Sazlan Abdul Kadar (Universiti Tun Hussein Onn Malaysia, Malaysia); Nor Adrian Nor Salim (Universiti Tun Hussein Onn, Malaysia); Muhammad Shazmin Sariman and Noreina Kepal Nasir (Universiti Tun Hussein Onn Malaysia, Malaysia); A Rahman Rasyada (Ada Fresh Farm & No. Kg. Pt. Penghulu Koris, Malaysia); Md rabani Adnan (Universiti Tun Hussein Onn Malaysia, Malaysia)

17:15 Research & Development of Autonomous Vehicle System Modules

Lim Zi Jun, Lim Zi Quan and Ooi Soo Soo Jack (Universiti Tunku Abdul Rahman Sungai Long Campus, Malaysia); Mau Luen Tham (UTAR, Malaysia); Ban-Hoe Kwan and Bukhary Ikhwan Ismail (Universiti Tunku Abdul Rahman, Malaysia)

17:30pm : End of conference

AUTHORS INDEX

Name (Affiliation Country)

A KARIM BIN A RAHMAN (PETRONAS, Malaysia)
A Naga Nandhini (Thiagarajar College of Engineering, India)
A Rahman Bin Waruah Matollah (Petronas, Malaysia)
A Rahman Rasyada (Ada Fresh Farm, Malaysia)
Abdallah Abdellatif (Universiti Malaya, Malaysia)
Abdul Manan Sheikh (A'Sharqiyah University, Oman)
Abdul Saleem Mir (SOTON, United Kingdom (Great Britain))
Achariya Kuneepong (King Mongkut's Institute of Technology Ladkrabang, Thailand)
Adnan Kabbani (A'Sharqiyah University, Oman)
Ahmad Afif Nazib (Universiti Malaysia Perlis, Malaysia)
Ahmad Anwar Zainuddin (International Islamic University Malaysia, Malaysia)
Akito Konishi (Kansai Univerity, Japan)
Allan Jay L Baco (Mindanao State University - Iligan Institute of Technology, Philippines)
Amir Hussin (International Islamic University Malaysia, Malaysia)
Ananta Sinchai (King Mongkut's Institute of Technology Ladkrabang, Thailand)
Anil Kumar Yadav (National Institute of Technology Hamirpur, India)
Anton Ivanov (Nizhny Novgorod State Technical University n. a. R. E. Alekseev, Russia)
Arokia Nathan (University of Cambridge, United Kingdom (Great Britain))
Arulkumar Annamalaichamy (Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India)
Asrulnizam Abd Manaf (Universiti Sains Malaysia, Malaysia)
Atsushi Hirota (National Institute of Technology, Akashi College, Japan)
Aysa Siddika Esha (Independent University, Bangladesh, Bangladesh)
Azliza Mohd Ali (Universiti Teknologi MARA, Malaysia)
Azri Sham (Universiti Malaysia Perlis, Malaysia)
Azwanizam Che A Rahman (, Malaysia)
Ban-Hoe Kwan (Universiti Tunku Abdul Rahman, Malaysia)
Bessam Deboucha (Universiti Malaya, Malaysia)
Bingzhe Fu (North China Electric Power University, China)
Bojia Qin (School of Artificial Intelligence and Robotics, Xiamen University Malaysia, Malaysia)
Boon Yaik Ooi (Universiti Teknologi Petronas, Malaysia)
Bukhary Ikhwan Ismail (Universiti Tunku Abdul Rahman, Malaysia)
Chan Ze Kai (Universiti Sains Malaysia, Malaysia)
Chan-Nan Lu (National Sun Yat-sen University, Taiwan)
Chang Soon Tony Hii (Xiamen University Malaysia, Malaysia)
Chee Tak Gan (Axcell Solutions Sdn Bhd, Malaysia)
Cheolhee Park (ETRI, Korea (South))
Chi Wee Tan (Tunku Abdul Rahman University of Management and Technology, Malaysia)
Chuk Fong Ho (Tunku Abdul Rahman University of Management and Technology, Malaysia)
D Prince Winston (Kamaraj College of Engineering and Technology, India)
Daichi Uematsu (Kansai university, Japan)
David Enemali Abah (Universiti Teknologi Petronas, Malaysia)

Dobrila Lopez (School of Computing, Eastern Institute of Technology, New Zealand)
Elena N Sosnina (Nizhny Novgorod State Technical University n. a. R. E. Alekseev, Russia)
Emaediong Sylvanus Udofa (Universiti Teknologi Malaysia, Malaysia)
Engku Ahmas Azrulhisham Engku Mohamed (Universiti Kuala Lumpur, Malaysia)
Faizal Arya Samman (University of Hasanuddin, Indonesia)
Faridah Hanim Mohd Noh (Universiti Tun Hussien Onn Malaysia, Malaysia)
Fitriah Binti Shafei (Petronas, Malaysia)
Freddy Kheng Suan Tan (University of Nottingham Malaysia, Malaysia)
Gianmarco Goycochea Casas (Federal University of Viçosa, Brazil)
Gracia Rani (Thiagarajar College of Engineering, India)
Habibah Zulkefle (Universiti Teknologi MARA, Malaysia)
Haeryong Park (KISA, Korea (South))
Haesik Kim (VTT Technical Research Centre of Finland, Finland)
Hani Manoj (International Islamic University Malaysia, Malaysia)
Hanis Farhah Jamahori (Universiti Teknologi Petronas, Malaysia)
Hansheng Su (Panjin Campus of Dalian University of Technology, China)
Hansol Cha (none, Korea (South))
Haripriya N (RMK Engineering College, India)
Hasliza Hassan (Universiti Tun Hussein Onn Malaysia, Malaysia)
Herlina Abdul Rahim (Universiti Teknologi Malaysia, Malaysia)
Hou Kit Mun (Universiti Tunku Abdul Rahman, Malaysia)
Houssam Deboucha (University of Bejaia, Algeria)
Hsiao-Chin Yen (National Taiwan University of Science and Technology, Taiwan)
Huang-Jen Chiu (National Taiwan University of Science and Technology, Taiwan)
Ili Farhana Mohamad Ali Nasri (Universiti Kuala Lumpur Malaysian Institute of Aviation Technology, Malaysia)
Innocent Kamwa (University Laval, Canada)
Izuan Amin Ishak (UTHM, Malaysia)
Jagadheswaran Rajendran (Universiti Sains Malaysia, Malaysia)
Jana Abdulrahim Al Bogha (Qatar University, Qatar)
Javed Bari (North South University, Bangladesh)
Jawad Ahmad (University of Central Punjab, Pakistan)
Jerome Ignatius Yi Xian Yuen (University of Nottingham Malaysia, Malaysia)
Jian Yang (Tsinghua University, China)
Jiaye Yang (Panjin Campus of Dalian University of Technology, China)
Jin Yap Lim (Universiti Tunku Abdul Rahman, Malaysia)
Jonghyun Kim (Sejong University, Korea (South))
Junzhe Chen (Beihang University, China)
Kalai Vani Solaisamy (Kamaraj College of Engineering and Technology, Virudhunagar, Tamilnadu, India)
Kasthuri Subaramaniam (Universiti Malaya, Malaysia)
Kawsar Ahmed Refat (Pabna University of Science and Technology, Bangladesh)
Ke Yi Kuan (Delta Electronics Inc., Taiwan)
Ken How Goh (Universiti Teknologi Petronas, Malaysia)
Ken-ichi Kondo (Kansai University, Japan)
Khairul Safuan Muhammad (Universiti Teknologi MARA, Malaysia)

Kim Jin Gang (Korea Internet & Security Agency, Korea (South))
 Kok Soon Tey (University of Malaya, Malaysia)
 Krishnan Subramaniam (INTI International College, Penang, Malaysia)
 Kyungmin Park (Electronics and Telecommunications Institute, Korea (South))
 Lamia Iftekhar (North South University, Bangladesh)
 Liew Hui Fang (University Malaysia Perlis, Malaysia)
 Lim Zi Jun (Universiti Tunku Abdul Rahman Sungai Long Campus, Malaysia)
 Lim Zi Quan (Universiti Tunku Abdul Rahman Sungai Long Campus, Malaysia)
 Lyly Nyl Ismail (Universiti Teknologi MARA, Malaysia)
 M Zulhilmie Bin Mat Kana (PETRONAS, Malaysia)
 M Zuraimi Rahman (UTP, Malaysia)
 Maaspaliza Azri (Faculty of Engineering, Malaysia)
 Mahziar Parsapour (Mechatronics Engineering Technology Section, UniKL MFI, Malaysia)
 Man Hay Pong (NTUST, Taiwan)
 Marizan Mubin (University of Malaya, Malaysia)
 Masaki Hisazumi (Kanden Engineering Corporation, Japan)
 Masayoshi Toda (Tokyo University of Marine Science and Technology, Japan)
 Matthew Dunnigan (Heriot-Watt University, United Kingdom (Great Britain))
 Mau Luen Tham (UTAR, Malaysia)
 Maveeya Baba (Universiti Teknologi Petronas, Malaysia)
 Md rabani Adnan (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Md Rafiqul Islam (International Islamic University Malaysia, Malaysia)
 Md Shafiullah (King Fahd University of Petroleum & Minerals, Saudi Arabia)
 Md. Abdur Razzak (Independent University, Bangladesh, Bangladesh)
 Md. Feroz Ali (Pabna University of Science and Technology, Bangladesh)
 Md. Shahan Sarker (Independent University, Bangladesh, Bangladesh)
 Md.Wajed Ali (Pabna University of Science and Technology, Bangladesh)
 Meghraj Morey (Government College of Engineering Amravati, India)
 Mehdi Seyedmahmoudian (Swinburne University of Technology, Australia)
 Meng-Lei Lu (LITE-ON Technology Corporation, Taiwan)
 Mirza Sarwar Kamal (North South University, Bangladesh)
 Mohamad Adhwa bin Roslan (Universiti Teknologi Mara, Malaysia)
 Mohamad Amirur Rahman Azahar (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Mohamed Hadi Habaebi (International Islamic University Malaysia (IIUM), Malaysia)
 Mohamed Sultan Mohamed Ali (Qatar University, Qatar)
 Mohammad Nasrul Mubin (Universitas Muhammadiyah Surakarta, Indonesia)
 Mohammad Yasir Nazir (Indian Institute of Technology, Roorkee, India)
 Mohammed Abujarad (Universiti Malaya, Malaysia)
 Mohammed Ansar Mohammed Manaz (National Sun Yat-Sen University, Taiwan)
 Mohd Abdul Talib Mat Yusoh (Universiti Teknologi MARA (UiTM), Malaysia)
 Mohd Amran Mohd Radzi (Universiti Putra Malaysia, Malaysia)
 Mohd Azrik Roslan (Universiti Malaysia Perlis, Malaysia)
 Mohd Izzuddin Mohd Tamrin (International Islamic University Malaysia, Malaysia)
 Muammar Mukhsin Ismail (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Muhamad Fahezal Ismail (UniKL MFI, Malaysia)

Muhamad Faizal Yaakub (Universiti Teknikal Malaysia Melaka, Malaysia)
 Muhammad Ali Ameer Shah (University of Central Punjab, Pakistan)
 Muhammad Ammirul Atiqi Mohd Zainuri (Universiti Kebangsaan Malaysia, Malaysia)
 Muhammad E. H. Chowdhury (Qatar University, Qatar)
 Muhammad Harith Hairuddin (Universiti Teknologi Malaysia, Malaysia)
 Muhammad Mizar Aiman Prasetya (Universitas Muhammadiyah Surakarta, Indonesia)
 Muhammad Murtadha B. Othman (Universiti Teknologi MARA, Malaysia)
 Muhammad Saqib Iqbal (Universiti Teknologi Malaysia, Malaysia)
 Muhammad Sazlan Abdul Kadar (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Muhammad Shazmin Sariman (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Muhammad Yunus Iqbal Basheer (Universiti Teknologi MARA, Shah Alam, Malaysia)
 Muhammad Zain Siddiqi (Swinburne University of Technology, Sarawak Campus, Malaysia)
 Muhammad Zulkifl Hasan (University of Central Punjab, Pakistan)
 Muhammad Zunnurain Hussain (Bahria University Lahore Campus, Pakistan)
 Muhd Qayyum Azhad Zamaruddin (Universiti Teknologi MARA, Malaysia)
 Musa B M Yusuf (Universiti Teknologi Petronas, Malaysia)
 Mustafa Suphi Erden (Heriot-Watt University, United Kingdom (Great Britain))
 Nadim Reza (Rajshahi University of Engineering and Technology, Bangladesh)
 Naoyuki Aikawa (Tokyo University of Science, Japan)
 Narendra Aridas (Universiti Malaya, Malaysia)
 Neelakandan Subramani (R.M.K. Engineerig College, India)
 Neha Tak (Birla Institute of Technology and Science, India)
 Nik Nor Muhammad Saifudin Nik Mohd Kamal (Kulliyyah of Information and Communication Technology (KICT), Malaysia)
 Nobuyuki Naoe (Kanazawa Institute of Technology, Japan)
 Noel Estoperez (Mindanao State University - Iligan Institute of Technology, Philippines)
 Noor Ayuni Che Zakaria (Universiti Teknologi MARA, Malaysia)
 Nooraini Yusoff (Universiti Malaysia Kelantan, Malaysia)
 Nor Adrian Nor Salim (Universiti Tun Hussein Onn, Malaysia)
 Noralyza Tamjis (Universiti Teknologi Petronas, Malaysia)
 Norazlan Hashim (Universiti Teknologi MARA, Malaysia)
 Noreina KEPAL Nasir (Universiti Tun Hussein Onn Malaysia, Malaysia)
 Norhafiz Azis (Universiti Putra Malaysia, Malaysia)
 Norhamizah Idros (Universiti Sains Malaysia, Malaysia)
 Norlina Paraman (UTM, Malaysia)
 Norsabrina Sihab (Universiti Teknologi MARA Cawangan Pulau Pinang, Malaysia)
 Nur Fatkhiyaturrosidah (Universitas Muhammadiyah Surakarta, Indonesia)
 Nur Sa'adah Muhamad Sauki (Universiti Teknologi MARA, Cawangan Pulau Pinang, Malaysia)
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