

CONFERENCE PROGRAM

7th International Conference on Electrical, Communication and Computer Engineering

ICECCE

22 - 23 October 2026

Kuala Lumpur, Malaysia

2 day(s) · 66 presentations

All timings are in GMT + 8 (KUALA LUMPUR)

Day 1: Thursday, 22 October 2026 - Program Overview · all times GMT + 8 (KUALA LUMPUR)

Rooms: Room A Physical Physical (Conference Hall) Room B Virtual Virtual Room A Virtual Virtual

Time	ROOM A PHYSICAL Physical	ROOM B VIRTUAL Virtual	ROOM A VIRTUAL Virtual
09:00-09:45	**Opening** Chair: Dr. Athar Waseem		
09:45-10:00	**Tea Break**		
10:00-10:30	**Day 1 - Keynote Talk 1** Chair: Dr. Athar Waseem		
10:30-11:00	**Day 1 - Keynote Talk 2** Chair: Dr. Athar Waseem		
11:00-12:00	**Day 1 - Session 1 - General, AI, Neural Networks, Deep Learning and Intelligent Systems** (5) Chair: Dr. Shafqat Ullah Khan		
12:00-13:00	**Day 1 - Lunch Break**		
13:00-14:00	**Day 1 - Session 2 - Mixed Topics, Software Engineering, Education & Technologies, Biomedical Engineering, Communication** (5) Chair: Dr. Teh Chin Hui		
14:00-14:15	**Tea Break**		
15:00-16:30		**Day 1 - Session 4 - Communication, Alternate Energy Systems, Smart Grids & Energy Management** (7)	**Day 1 - Session 3 - AI, NN, DL and Intelligent Systems, Robotics and Automation** (7)
16:30-18:00		**Day 1 - Session 6 - AI, NN, DL and Intelligent Systems, Robotics and Automation** (7) 16:30-17:45	**Day 1 - Session 5 - Mixed Topics** (7)

Opening · Day 1 · 09:00-09:45 · Room A Physical Physical · Session chair: Dr. Athar Waseem
Opening and Welcoming Speeches by General Chairs, Souvenir Distribution, Awards Distribution, Group Photography

Day 1 - Keynote Talk 1 · Day 1 · 10:00-10:30 · Room A Physical Physical · Session chair: Dr. Athar Waseem
Prof. Ir. Dr. Khairul Salleh Mohamed Sahari FASc

Day 1 - Keynote Talk 2 · Day 1 · 10:30-11:00 · Room A Physical Physical · Session chair: Dr. Athar Waseem
Prof. Ts. Dr. Mardeni Bin Roslee FASc, SMIEEE

Day 1 - Session 1 - General, AI, Neural Networks, Deep Learning and Intelligent Systems · Day 1 · 11:00-12:00 · Room A Physical Physical · Session chair: Dr. Shafqat Ullah Khan

Time	Authors (presenter in red)	ID	Title
11:00	**Azim Sharkar**, Mardeni Bin Roslee, Siti Maisurah Mohd Hassan, Mohamad Yusoff bin Alias, Robaiyat Khanom, Fardin Kabir	PAP-004	UAV-Relayed LoRa Field Sensing with Mobile Irrigation Advisory
11:12	**Vanja Čotić Poturić**, Sanja Čandrlić, Ivan Dražić	PAP-018	Discipline-Specific Differences in Students' Use of AI Tools: Evidence from Engineering Education
11:24	Yatee Pachpande, Yug Morzaria, Jiya Vala, **Rehan Kataria**, Vijayetha Thoday	PAP-049	RD-FID: Robust Deepfake Detection Under Facial Image Degradation
11:36	**Girija Attigeri**, Akhil Rahman, Sushant Raj	PAP-051	Advancing Sentiment Classification Through Zero-Shot Learning
11:48	**Fardin Kabir**, Mardeni Roslee, Hizamel Hizan, Anas Abas, Azim Sharkar, Fahmid Kabir	PAP-111	AI-Enabled Reconfigurable Antennas and Metasurfaces: A Critical Review of RF Performance and Control Evidence

Day 1 - Session 2 - Mixed Topics, Software Engineering, Education & Technologies, Biomedical Engineering, Communication · Day 1 · 13:00-14:00 · Room A Physical Physical · Session chair: Dr. Teh Chin Hui

Time	Authors (presenter in red)	ID	Title

13:00	**Ubaid Umar**, Athar Waseem	PAP-002	Hybrid CS-ML Framework for Channel Estimation, Active User Detection, and Security Enhancement in Massive MIMO B5G Systems
13:12	**Eriana Lim Binti Muhammad Razwan Lim**, Mohd Rivaie Mohd Ali, Mardeni Bin Roslee, Azim Sharkar, Fardin Kabir	PAP-005	LVEF Estimation Using Numerical Integration and Geometric Volume Models for 5G-Enabled Tele-Echocardiography
13:24	**Hatem Deif**, Mohamad Hammoudi, Jaya Abraham	PAP-046	Gender Differences in Student Motivation toward NodeBook™ in University Mathematics
13:36	Azim Sharkar, Mardeni Bin Roslee, Siti Maisurah Mohd Hassan, Mohamad Yusoff bin Alias, **Md. Imtiaz Uddin**, Fardin Kabir	PAP-104	An SDR-Based RSSI Handover Testbed for Future Direct-to-Device Satellite Communications
13:48	**Dr. Ayesha Abbasi**, Adnan Umar, Nurulafiqah Nadzirah Mansor, Hazlie Mokhlis	PAP-112	Sensitivity of Day-Ahead Battery Peak Shaving to Load and PV Forecast Errors

Day 1 - Session 3 - AI, NN, DL and Intelligent Systems, Robotics and Automation · Day 1 · 15:00-16:30 · Room A Virtual Virtual

Time	Authors (presenter in red)	ID	Title
15:00	**KI BEOM KWEON**, Yujeong Han, Seoyon Koo, Seong-Geon Bae	PAP-012	A Study on CNN Pooling for Preserving Spatial Context in Vision Transformers
15:12	**Buddhika Madhuwanthi**, Lasith Damindu, Tharindu Weerakoon, Chathura Wanigasekara	PAP-017	Improving Generalization of Indoor Mobile Robot Navigation Using a Curriculum-based Domain Randomization Framework for SAC
15:24	**Ainur Kapparova**, Stéphane Galland, Yersultan Kaniyev, Ahmet Saymbetov, Askhat Bolatbek, Madiyar Nurgaliyev, Gulbakhar Dosymbetova, Batyrbek Zholamanov	PAP-020	Intelligent HVAC and energy storage system control based on multi-agent reinforcement learning
15:36	**Nathaniel Y. Na**	PAP-023	Understanding reward design impact for reinforcement learning-based quantum circuit optimization
15:48	**Umair Shahzad**	PAP-029	Artificial Neural Network for Voltage Stability Assessment: A Review
16:00	**Debayan Bhaumik**, Koushik Pal, Anand Kumar, Niraj S Derkar	PAP-035	Enhancing Fault Tree Analysis: A Comparison Between Traditional Method and GenAI-Based Approaches
16:12	**Daruk Rakshen S**, Dhaya Babuji B, Niranjana R	PAP-058	Spatio-Temporal 3D Trajectory Reconstruction from Multi-Camera Surveillance Footage

Day 1 - Session 4 - Communication, Alternate Energy Systems, Smart Grids & Energy Management · Day 1 · 15:00-16:30 · Room B Virtual Virtual

Time	Authors (presenter in red)	ID	Title
15:00	**Sabahattin Doruk Yıldön**, İsmail Şişman, Tuğba Haykır Ergin	PAP-021	Design of an X-Band Filtered Harmonic Suppression Multisection Wilkinson Power Divider for Space Communications
15:12	**Muhammad Naveed**, Amjad Ullah, Kaleem Ullah, Shadad Khan, Zahid Ullah	PAP-053	Load Disturbance Classification Using ANN for Adaptive Gain-Scheduled AGC in a Multi-Source Renewable Power System
15:24	**Kaleem Ullah**	PAP-079	Advanced Forecasting Techniques for Solar Energy Systems: A Systematic Review of Statistical, Machine Learning, and Hybrid Models
15:36	Hamza Yousaf, Sravan Kumar Rasakatla, Zulqarnain Musawar, Abdur Rahman, **Kaleem Ullah**, Rehmana Younis	PAP-080	CNN-BiLSTM Hybrid Neural Network for Short-Term Load Forecasting in Deregulated Electricity Markets
15:48	Mishal Sarfraz, Zulqarnain Musawar, Sravan Kumar Rasakatla, **Zahid Ullah**, Sarmad Saeed	PAP-081	Short-Term Solar Power Forecasting via Ensemble Learning-based Stacking Framework
16:00	Mishal Sarfraz, Zulqarnain Musawar, Sravan Kumar Rasakatla, Hamza Yousaf, **Kaleem Ullah**	PAP-082	A Deep Learning GRU-Stacked CNN Framework for Short-Term Wind Power Forecasting
16:12	**Fatemeh Sarasir**, Vilda Purutçuoğlu, Ahmet Bursalı	PAP-063	Real-World Applications of a Circular Graphical Model to Energy Systems

Day 1 - Session 5 - Mixed Topics · Day 1 · 16:30-18:00 · Room A Virtual Virtual

Time	Authors (presenter in red)	ID	Title

16:30	**Sanket Shah**	PAP-009	Synchronization-Aware Index Maintenance for Production Database Resilience: A Large-Scale SQL Server Always On Case Study
16:42	**Omnia Shaaban**, Bassant Abdelhamid, Micheal Ibrahim	PAP-022	Confidence-Aware Early Fault Detection for Robotic Screwdriving via Digital Twin
16:54	**Neha fotedar**, Ashish Gor	PAP-028	Performance Characterization of Bitonic Sort Across Consumer and Datacenter GPU Architectures Using a Unified OpenCL Framework
17:06	**Buse Yağmur METİNER**, Emir Kaan TUTUŞ, Celal Fadıl KUMRU, Nevzat ONAT	PAP-064	Modeling and Analysis of Lightning Impulse Current Effects on Wind Turbine Grounding Systems
17:18	Sahibzada Muhammad Ali, Mishal Sarfraz, Zulqarnain Musawar, Sravan Kumar Rasakatla, Shafia, **Abdullah Khan**	PAP-086	AI-Driven Energy Forecasting for Anticipatory and Stability-Oriented Power System Operation
17:30	Syed Zarak Shah, Mishal Sarfraz, Balaj Khalid, Yasir Hussain, **Shahid Sultan**, Rehmana Younis	PAP-096	A Machine Learning Surrogate Framework for Energy-Efficient Data Center Optimization
17:42	Mahnoor Asghar, **Ahmed Hussain**, Muhammad Sarfraz Khan, Ahmad Zaheer	PAP-097	Assessing Creativity in Young Children Using AI-Driven Multimodal Analysis of Visual and Verbal Cues

Day 1 - Session 6 - AI, NN, DL and Intelligent Systems, Robotics and Automation

· Day 1 · 16:30-17:45 · Room B Virtual

Virtual

Time	Authors (presenter in red)	ID	Title
16:30	**Balaji Chidambaram**, Akash Gujju, Mohammad Jilan Basha Dudekula, Pranav Shekhar, Divyanshu Gupta	PAP-040	Automated Variance Commentary via Materiality-Gated Greedy Attribution and Faithful LLM Narration
16:40	**Pius Jueng Lau**, Tomas Maul	PAP-041	GaterViT - Dynamic Patch Selection in Vision Transformers
16:50	**Divyanshu Gupta**, Pranav Shekhar, Shalini Mittal, Vaibhav Mishra, Balaji Chidambaram, Akash Gujju, Mohammad Jilan Basha Dudekula, Chirag Jain	PAP-043	Contract Copilot: An Evidence-Grounded Multi-Agent Framework for Intelligent Contract Analysis Using Large Language Models and Knowledge Graphs
17:00	**Muralikrishna Dudaka**	PAP-062	Coding Gain in Vector Databases: Provably Optimal Bit Allocation for Product-Quantized Embedding Indexes
17:10	**Noor Alhuda Omran Mohammed**, Israa Tahseen Ali Al-Attar, Faiz A. Al Alawy	PAP-070	A Hybrid YOLOv11 and Domain-Specific Structural Correction Framework for Iraqi Bilingual License Plate Recognition
17:20	**Vamsi Mulpuri**	PAP-113	In-Storage Accelerated Retrieval-Augmented Generation: Reducing Data Movement via Query Pushdown to Computational Storage
17:30	pranot solase, Shivam Giri, **Vidya Badadare**, Ashwini Sawant	PAP-066	RealTime Weapon Detection System Using Deep Learning and YOLOv8 for CCTV Surveillance

Day 2: Friday, 23 October 2026 - Program Overview · all times GMT + 8 (KUALA LUMPUR)

Rooms: Room B Virtual Virtual Room A Virtual Virtual

Time	ROOM B VIRTUAL Virtual	ROOM A VIRTUAL Virtual
10:30-11:45	**Day 2 - Session 8 - Communication, Alternate Energy Systems, Smart Grids & Energy Management** (5)	**Day 2 - Session 7 - AI, NN, DL and Intelligent Systems, Robotics and Automation** (5)
12:00-13:50	**Day 2 - Session 10 - Communication, Alternate Energy Systems, Smart Grids & Energy Management** (9)	**Day 2 - Session 9 - AI, NN, DL and Intelligent Systems, Robotics and Automation** (9)
13:50-14:50		**Day 2 - Closing** Chair: Dr. Athar Waseem

Day 2 - Session 7 - AI, NN, DL and Intelligent Systems, Robotics and Automation · Day 2 · 10:30-11:45 · Room A Virtual Virtual

Time	Authors (presenter in red)	ID	Title
10:30	**Mansoor Iqbal**, Muhammad Sarfraz Khan, Muhammad Imran	PAP-089	Edge AI for Resource-Constrained IoT: Architectures, Efficiency Techniques, and Performance Trade-offs
10:45	**Mansoor Iqbal**, Muhammad Waleed Iqbal, Waleed Khan, Muhammad Akram, Muhammad Ibrar, Ahmad Zaheer	PAP-091	Retention-Aware Machine Learning for Edge-Based IoT Data Reduction and Cloud Data Cube Analytics
11:00	Muhammad Adeen Zahid, **Mumtaz Ali Shah**, Muhammad Waleed Iqbal, Waleed Khan, Muhammad Akram, Umar Saddique	PAP-095	Comparative Evaluation of Machine Learning Classifiers for Pre-Execution IoT Query Workload Prediction
11:15	**Oumaima HILALI**, Aziz Soulhi, Fouad Amal Wahid, Lyazid Alaoui Mrani	PAP-106	A Monotone Non-Compensatory Fuzzy Logistic Support Agent for Hospital Operational Sustainability
11:30	**Oumaima Hilali**, Aziz Soulhi, Fouad Amal Wahid, Lyazid Alaoui Mrani	PAP-107	An Interpretable Fuzzy Performance Coordination Agent for Hospital Resilience under Compound Operational Stress

Day 2 - Session 8 - Communication, Alternate Energy Systems, Smart Grids & Energy Management · Day 2 · 10:30-11:45 · Room B Virtual Virtual

Time	Authors (presenter in red)	ID	Title
10:30	**Ali-Mansur Valiyev**	PAP-083	An Early-Warning System for Endangered Wildlife in Kazakhstan's Renewable-Energy Transition
10:45	Krishna Rajagopal, **Jayanth K Atreya**, Subiksha M	PAP-084	Machine Learning-Based Phishing Detection: A Comparative Evaluation of Classification Algorithms
11:00	**Abdullah Khan**, Sahibzada Muhammad Ali, Zulqarnain Musawar, Sravan Kumar Rasakatla, Muhammad Hadi, Mishal Sarfraz	PAP-085	Global Energy 2.0: Human-Centric Engineering for Sustainable and Decentralized Energy Systems
11:15	Sahibzada Muhammad Ali, Sravan Kumar Rasakatla, Sadia Ali Watara, Shadad Khan, **Abdullah Khan**	PAP-088	TrustGrid-XAI: Federated Explainable AI with Blockchain-Secured Aggregation for Secure Voltage Control in Distributed Renewable Smart Grids
11:30	Hung Nguyen-Manh, **Thai Nguyen-Dinh**, Duy-Phong Pham	PAP-099	Single-Layer Dual-Polarized Patch Antenna With Per-Polarization Frequency Tuning for C-Band Tunable-Duplex Applications

Day 2 - Session 9 - AI, NN, DL and Intelligent Systems, Robotics and Automation · Day 2 · 12:00-13:50 · Room A Virtual Virtual

Time	Authors (presenter in red)	ID	Title
12:00	**Zannatul Mawa Leion**, Jahan Hassan, Biplob Ray, Salahuddin Azad	PAP-008	An Integrated Acquisition Framework for Consistent UAV Remote Sensing in Agriculture
12:12	**Gandham Bhanu Prakash**, Varikuti Jagan Mohan Reddy	PAP-011	Neuro-Symbolic Closed-Loop Academic Intelligence: Unifying Temporal Learning Velocity, Curriculum Prerequisite Knowledge Graphs, and Counterfactual Intervention Optimization for Verifiable Higher-Education Remediation
12:24	Aakash S, Ajay S, **Gowsi S M**, Jerome Jestin A, M Gowthami	PAP-024	SPARC: Semantic Pareto-Aware Response Cache Optimization for Large Language Models
12:36	**Rafiuddin Syed**	PAP-042	Confidence-Aware Task-Event Classification for Priority-Driven Scheduling in Multi-Core Cloud Environments

12:48	Miguel Carrasco Muñoz, Salvador Alcaraz Carrasco, **Pedro Juan Roig Roig**	PAP-054	Electromechanical Analogy of Quantum Teleportation using Chladni Plates
13:00	**Muralikrishna Dudaka**	PAP-061	review-loop: An Empirical Study of Self-Critique and Fresh-Context Review in LLM Agents
13:12	**Muhammad Uzair Javed**, Mohammed Benmubarak	PAP-069	Automated Knee MRI Quality Assessment Using SSIM-Based Labelling and Deep Learning
13:24	**Khairunnisa**, Nurkamilia, Ivan Maududy	PAP-077	Acoustic Signal Enhancement of Agricultural Pest Sounds Using Adaptive LMS and NLMS Filtering
13:36	**Madhan Mohan Reddy Chinthala**, Kishore Bitra	PAP-092	AI-Driven Adaptive Policy Enforcement for Zero Trust Microsegmentation in Hybrid Cloud Infrastructures

Day 2 - Session 10 - Communication, Alternate Energy Systems, Smart Grids & Energy Management

· Day 2 · 12:00-13:50 · Room B Virtual **Virtual**

Time	Authors (presenter in red)	ID	Title
12:00	**Analyn S. Morite**, Jaime Elysergs Maceren, Shenette Jane I. Dela Cruz, Rainier I. Bucod, Rey Christian O. Espanto, Aeron M. Patagan	PAP-014	Design and Implementation of a Web-Based Queue Management System for Barangay Public Services
12:12	**Ryan Roman M. Catog**, Ariel Roy L. Reyes	PAP-015	A Hybrid GitOps Framework for Legacy Systems Under Public-Sector Deployment Constraints
12:24	**Mingyang Li**, Aixin Chen	PAP-052	A Frequency Selective Absorber With Tunable Absorption Frequency
12:36	**Sudhamani Chilakala**, Jayakanthan M, Mardeni Roslee, Mohd Zul Fadli, Anwar Faizd Osman, Fatimah Zaharah Ali	PAP-073	Performance Analysis of FANET Routing Protocols
12:48	Hung Nguyen-Manh, **Thai Nguyen-Dinh**, Manh Hoang-Tien, Giang Nguyen-Hoai	PAP-100	Two-PIN Tri-Band Ground-Slot Monopole with Quantified Pattern Redistribution for WLAN and the Lower 6-GHz Band
13:00	**Mustafa Saad Naji Al-Akashi**, Maysar Salim Alattar	PAP-108	Next-Generation Grid-Connected Bidirectional AC–DC Converters: A Critical Review of Advanced Topologies and Power Scalability for Vehicle-to-Grid Applications
13:12	**Mustafa Saad Naji Al-Akashi**, Maysar Salim Alattar	PAP-109	Advanced Control of Grid-Connected Bidirectional AC–DC Converters for V2G: A Critical Review of Power Quality and Dynamic Stability
13:24	Fatima Mazeh, **Ahmad Mokbel**, Hussam Ayad	PAP-048	A Quad-Band Branch Line Coupler with Arbitrary Frequency Ratios Based on Extended Composite Right/Left-Handed Transmission Lines
13:36	**Aditya Goel**, Pranav Kulkarni	PAP-059	Observability and Fault Tolerance of Relativistic Proper-Time Navigation in Strong Gravitational Fields