CONFERENCE PROGRAM (April 23-25, 2025)

Day 01 – April 23, 2025 (Wednesday)	
Time	**Program**
Inaugural Session, Venue: USPCAS-W Auditorium	
8:00 am	Registration Starts
8:40 am	Guests to be Seated
9:00 am	Event Starts
9:05 am	Recitation of Holy Quran
9:10 am	National Anthem of Pakistan
9:15 am	Welcome Speech by Prof. Dr. Wajiha Shah (Conference Chair)
9:20 am	Conference Briefing by Dr. Kehkashan Asma (Publishing Chair)
9:30 am	Speech by. Dr. Mahesh Kumar (Conference Secretary)
9:40 am	Speech by the Representative of IEEE Karachi Section
9:50 am	Speech by Prof. Dr. Ashfaque Hashmani (Dean FEECE)
10:00 am	Speech by Prof. Dr. Aneel Kumar (Patron and Pro-Vice Chancellor)
10:10 am	Speech by Prof. Dr. Tauha Hussain Ali (Patron-in-Chief and Vice Chancellor)
10:30 am	Vote of Thanks by Prof. Dr. Syed Asif Ali Shah (Conference Chair)
10:40 am	Souvenirs and Shield Distribution to Special Guests and Speakers
10:50 am	**TEA BREAK**

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12:00 pm	**Keynote Talk-1: Lab-on-Chip Devices for Biomedical Applications** **Dr. Adil Mustafa, University of Bolton, UK** **Venue:** Video Conference Hall, IIT Building		
	SESSION-I: AI, ML AND DL Session Chair(s): Prof. Dr. Zafi Shehran Shah/Dr. Sanam Narejo **Venue:** Video Conference Hall, IIT Building	**SESSION-II: AUTOMATION CONTROL AND ROBOTICS** Session Chair(s): Prof. Dr. Arbab Nighat/ Dr. Shadi Khan **Venue:** Embedded System Design Lab, IIT Building	
12:30 pm	TMNet: A Lightweight Semantic Segmentation-Based Lane Detection Network for Varying Lighting Conditions Madiha Shabir Shaikh, Sadia Muniza Faraz, Yawar Rehman	Design, Modelling, and Kinematic Analysis of 6 DOF Articulated Robotic Arm with Spherical Wrist for Harvesting heavy Agricultural Products Syeda Umm-e-aymon, Syed Irtiza Ali Shah, Adeel Hassan Khan	**POSTER SESSION** Session Chair(s): Dr. Zaigham Abbas Shah **Venue:** Conference Room, Electronic Engineering Department Building **12:30 PM to 2:00 PM**
12:45 am	Data driven approach for active loss prediction with reactive support contingencies using ANN Shariq Shaikh, Sohaib Uddin, Mubashir Ali	Real-Time Clock (RTC)-Based Automated Garden Watering System Muhammad Khalid, Yaqoob Ali Baloch, Bhawani Shankar Chowdhry, Muhammad Zakir Shaikh	
1:00 pm	Vision Transformer-based Approach for Classification of Buddhist and Non-Buddhist Heritage Sites in Taxila Muhammad Sohail Abbas1*; Sonain Jamil, Asif Muhammad	Design and Development of Self Balancing Stair Climbing Platform Muhammad Usama, Naqash Ahmad, Saim Raza, Akhtar Khurshid	
1:15 pm	Designing and development of an Intelligent Chatbot for Enhanced Online Shopping using Natural Language Processing (NLP) techniques Syed Muhammad Nabeel Mustafa1, Shiza Riaz, Maria Andleeb Siddiqui, Aqsa Nisar	Design and Implementation of a Bluetooth Driven Mini Scissor Lift with Remote Control Capabilities Muhammad Adden, Rizwan Zahid, Naqash Ahmad, Imran Shah, Muhammad Taqi Faza, Shuja Khalid	

Further Details at: *icetecc.muet.edu.pk*

1:30 pm	NutriVision: Early Detection of Malnutrition Using Advanced Deep Learning Ibraheem, Aaqib Raza, Mehak Mubarik, Qamar Un Nisa Kamal, Sawaira Ayaz	Tunable Dodecagonal RIS Unit Cell for Disaster Recovery via MADNI Drone at Sub-6 GHz Harsh Choudhary, Muhammad Usman Hadi1	
1:45 pm	System identification of a closed mechanical system using physics inspired neural networks. *Muhammad Yousuf Eisa Muhammad Saqib Nazir, Hassan Moin, Shahbaz Khan, Syed Irtiza Ali Shah, Zartasha Mustansar*	Modular and Multi-Legged Design Analysis for Stability Enhancement of Elderly Walkers Fizza Ellahi, Dr. Zartasha Mustansar, Dr. Syed Irtiza Shah	
2:00 pm	Real-Time Detection of Underwater Debris Using YOLOv11: An Optimized Approach Abdul Basit Mughal, Syed Mohsin Shah, Rafi Ullah Khan	Adaptive Control Strategies for HVAC Systems: Integrating Genetic Algorithms with Deep Reinforcement Learning Sibtain Waheed, Shuhong Li, Ateeque Ahmed	
2:15 pm	**Keynote Talk-2:** Chip Design Journey and the RISC-V Processor **Dr. Muhammad Irfan, Hong Kong Industrial Artificial Intelligence and Robotics Centre, Hong Kong.** **Venue:** Video Conference Hall, IIT Building		
2:45 pm	**LUNCH, NAMAZ AND TEA BREAK**		
	SESSION-I: AI, ML, AND DL (CONTINUED) **Venue:** Video Conference Hall, IIT Building	**SESSION-II: AUTOMATION CONTROL AND ROBOTICS (CONTINUED)** **Venue:** Embedded System Design Lab, IIT Building	**SESSION-III: CYBER SECURITY** Session Chair(s): Prof. Dr. Qasim Ali Arain\ Dr. Faheem Khawer **Venue:** Conference Room, Electronic Engineering Department Building

3:30 pm	Text-to-Image Generation Using Recurrent Convolutional GANs Hafiz Arslan Ramzan, Sadia Ramzan, Tehmina Kalsum, Minahil Rauf, Maria Sher	Control Schemes for Lower Limb Exoskeleton: A Systematic Review Hamza Shabbir Minhas, Usama Umar, Neelum Yousaf Sattar, Ahram Khan, Naqash Ahmad	An Ensemble Deep Learning Framework for Autonomous Vehicle Attack Detection Hassan Jari, Hassan Ahmed, Hareem Kibriya, Wazir Zada Khan, Ali Tahir
3:45 pm	AI-Powered Smart Inventory Management: Enhancing Efficiency Through Predictive Analytics and Automation Muhammad Saqib Javed, Rimsha Chauhdary, Aashir Waleed, Farhan Ahmad, Muhammad Zubair, Osama Tariq	Paper-ID 179:AI Based Smart Hybrid Machine Technology *Sheheryar Ali, Syed Muhammad Husain Alam, Ariez Khan, Talha Shakil, Junaid Imtiaz*	Detecting CAN Bus Attacks in Autonomous Vehicles Using Deep Learning Hania Siddiqui, Hareem Kibriya, Wazir Zada Khan, Shams Tabrez Siddiqui, Nadim Rana, Ali Tahir
4:00 pm	Research Proposal for The Modernization of Punjab Skill Development Authority (PSDA) through Computer Vision Based Model Ali Amjad1, Muhammad Khurum Abbas, Khizar Altaf3	Digital Twin-Enabled Obstacle Avoidance System for the MADNI Drone Cara Rose1, Robert Mcmurray, Muhammad Usman Hadi	A Dynamic Approach for Detecting Attacks in Controller Area Networks Abdullah Khan, Sherif Tawfik Amin, Hareem Kibriya, Wazir Zada Khan, Ayesha Siddiqa, Ali Tahir
4:15 pm	AI BASED SURVEILLANCE SYSTEM Karan Kumar Maheshwari, Shabana Hajano, Saba Baloch, Tehreem Fatima, Zarshah Zafar	Enhancing Climate Resilience and Disaster Management with IoT-Driven MADNI Muhammad Usman Hadi, Rajkamal Rajathanakodi, Cara Rose, Muhammad Shehram Shah Syed, Abbas Shah Syed	Paper-ID 031 :A Robust Semantic Segmentation Framework for Baggage Threat Detection *Saad Mazhar Khan, Muhammad Usman Akram, Anum Abdul Salam, Ammara Nasim*
4:30 pm	Optimized Deep Learning Hybrid Framework for Robust Detection of Fake News on Twitter Syed Fakhar Bilal, Hasham Shokat, Saba Bashir, Farhan Hassan Khan, Muhammad Dawood Majid, Muhammad Atif Khan	Design and Development of a Multifunctional Robotic System for Enhanced Farm Management Ibrahim Murtaza, Manhal Shaikh, Mazhar Javed, Talha Alam	Multi-Lingual Phishing Detection System Muhammad Ibrahim, Zeba Khan, Esha-tir-razia, Asjad Amin, Umar Fayyaz

4:45 pm	Power Spectral Density Based Weight Initialization Technique For Feed-Forward Neural Network Saliha Ejaz, Kiran Khurshid	Analyzing Uncertainty in the Spatial Representation of the Kinematic Bicycle Model Shafayat Abrar, M. Zaeem Baig, Shahir Ul Islam Anzal, Abdul Basit Memon	Integrating Machine Learning and SMOTE Framework: An Effective Credit Card Fraud Detection System Shuva Karmakar, Saif Sabbir, Muhammad Saqub, Nippon Datta, Sardor Sharifzoda, Mohammad Tarek Aziz
5:00 pm	Integrating XAI and Machine Learning for an Effective Forest Fire Prediction System Nippon Datta, Muhammad Saqib, Mohammad Tarek Aziz, Rakhimjon Rajapboyevich Rakhimov, Bekzod Madaminov, Tanjim Mahmud	Dynamic Modeling of Multibody Constrained Mechanisms With Rigid Links Maalej Aref, Haladou Atto Abdoulkader, Gorbel Fathi	A Voting Ensemble Model and Explainability Framework for Fake Account Detection in Social Media Saher Fatima Awan, Muhammad Wasim, Sehrash Safdar, Abdur Rehman, Muhammad Usman Ghani
5:15 pm		Development of Smart Syringe Infusion Device for Healthcare Arsha Kumari, Qudsia Memon, Zunair Tariq, Sapna Kumar	Enhanced Signature Recognition and Fraud Detection with Deep Learning Saqlain Ayub, Dr. Zartasha Mustansar, Dr. Syed Irtiza Ali Shah, Muhammad Waleed Khan
5:30 pm	**Keynote Talk-3:** **Integration of Renewable Energy with main Grid Opportunities and Challenges** **Engr. Dr.Raja Masood Larik, Department of Electrical Engineering NED UET, Karachi** **Venue:** Video Conference Hall, IIT Building		
	CLOSING OF DAY 01		

Further Details at: *icetecc.muet.edu.pk*

CONFERENCE PROGRAM (April 23-25, 2025)

Day 02 – April 24, 2025 (Thursday)	
Time	**Program**
8:00 AM	Registration Starts
8:40 AM	Guests to be Seated
9:00 AM	Event Starts
9:05 AM	**Keynote Talk-4:** Scientific Discovery in AI Era Dr. Rizwan Qureshi, University of Central Florida, USA **Venue:** Video Conference Hall, IIT Building

Time	SESSION-I ML DL (CONTINUED) Venue: Video Conference Hall, IIT Building	SESSION-IV: HEALTH, DISEASE DETECTION AND MEDICAL DEVICES Session Chair(s): Dr. Abdul Qadir Ansari/ Dr. Amjad Ali Shah Venue: Embedded System Design Lab, IIT Building	SESSION-V: COMPUTER SCIENCE Session Chair(s): Prof. Dr. Farida Memon/ Prof. Dr. Shahnawaz Talpur Venue: Conference Room, Electronic Engineering Department Building
9:30 AM	A Deep Learning Approach for Recognizing Bengali Characters and Numbers Rahul Kanti Das, Juel Sikder, Muhammad Saqib, Nippon Datta, Mohammad Tarek Aziz, Omon Matqurbonov4	Hybrid PSO-HHO Based Machine Learning Optimization For Lung Cancer Diagnosis Sumbul Azeem, Shazia Javed, Simran Azeem2	Learning Through Vision: Image Recognition in Early Education Sahil Jatoi, Bushra Abro, Shafi Jiskani, Yaqoob Ali Baloch, Dr Sanam Narejo, Dr. Kehkashan Asma
9:45 AM	Deep Learning-Driven Pilot-Assisted Signal Processing for MIMO Systems: A Step Towards End-to-End Learning Bibin Babu, Ammu Sudhakaran, Muhammad Yunis Daha, Muhammad Usman Hadi	Investigation of Deep Learning Methods for Disease Detection in Cotton Fields using UAV Imagery Anwar Iqbal, Dr Kunwar Faraz Ahmad Khan, Dr Shahbaz Khan, Dr.syed Irtiza Ali Shah, Dr. Zartasha Mustansar, Muhammad Azhar Javeed	Formal Methods as a Catalyst for Robust Smart Contracts in Blockchain Saba

10:00 AM	AMUSED: A Multilingual Urdu/English Stance and Fake News Detection Corpus Sehrash Safdar, Muhammad Wasim, Abdur Rehman, Muhammad Usman Ghani	Automated Diabetic Retinopathy Detection with FastDRNet on OCT Imaging Amna Ikram, Azhar Imran	Assessing the Role of Human Factors in Software Effort Estimation: A Quantitative Study Muhammad Mohsin Sami, Ali Afzal Malik
10:15 AM	Explainable Fake News Detection using a Hybrid DistillBERT and BiLSTM Kainat Irfan, Muhammad Wasim, Sehrash Safdar, Abdur Rehman, Muhammad Usman Ghani	Robust Deep Learning Model for Adversarial Defense in Medical Image Diagnosis Kanwal Zahoor, Usman Ghani	Comparative Analysis of Data Augmentation Techniques for Enhancing Generalizability in Brain Tumor Classification with Limited Datasets Muhammad Saif Ul Islam
10:30 AM	BERT-BiLSTM: A Novel Hybrid Approach for Stance Detection on Political Tweets Nida Iftikhar, Dr. Muhammad Wasim	Hybrid LSTM-Attention Framework for Enhanced Classification of Cardiac Abnormalities from ECG Signals Adeel Mukhtar, Sameen Ahmed Malik, Hamza Asjad, Samina Mufty, Muhammad Tahir, Jahanzeb Sheikh	Virtual Reality-Driven Smart Workspace Design: Leveraging Visual Analytics to Enhance Physical Comfort and Efficiency in Software Engineering Andhika Pramalystianto
10:45 AM	ACT-CLIP: Fake News Detection via CLIP-Based Cross-Modal Attention and Transformer Fusion Sarah Nasir1*; Muhammad Wasim, Abdur Rehman, Muhammad Usman Ghani	IoT-Based Rehabilitative and Assisstive Glove for Radial Nerve Palsy Patients Junaid Saddiqi, Sameen Ahmed Malik, Zainab Liaqat, Umer Noor, Muhammad Rehan Chaudhry, Muhammad Umair Ahmad Khan	Blind Image Quality Assessment in JPEG Compressed Domain Khaleeq Tajamal, Imran Fareed Nizami, Muhammad Majid
11:00 AM	Customer Segmentation with Personalized Offers Using Machine Learning & If-Else Statements Anum Khawaja, Amna Sarfaraz, Syeda Fariya Fatima Rizvi, Romaisa Zafar, Maha Ali, Mafazia Saqib	Hybrid Deep Learning for Blood Cancer Detection: A CNN-GCN Approach for Enhanced Diagnostic Accuracy Abdul Rehan, Adeel Mukhtar, Hunain Zaidi, Zain Ul Abidin, Waqas Tariq Toor	Integrating Interior Design Elements into Virtual Field Trip Spaces in the Metaverse Andhika Pramalystianto
11:15 AM	Tackling Climate Change by Forecasting Greenhouse Gas Emissions from Urban Areas using Deep Learning Habiba Naeem, Muhammad Farrukh Shahid, Muhammad Ali Shah Fatimi, Tariq J. S. Khanzada	BCI-based Human Hand Grip Control using fNIRS and sEMG Urooj Abid, Neelum Yousaf Sattar, Hamza Shabbir Minhas, Naqash Ahmad, Hammad Nazeer, Noman Naseer	Role of Green IT in Software Development Life Cycle Hafiz Arslan Ramzan, Tehmina Kalsum, Sadia Ramzan, Minahil Rauf, Maria Sehar, Syed Muhammad Ali Musa

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11:30 AM	TEA BREAK		
12:00 PM	**Keynote Talk-5:** TBA Syed Ab Rahman Abu-Bakar, Deputy Dean of Research, Innovation and Development. UTM Malaysia **Venue:** Video Conference Hall, IIT Building		
	SESSION-VI: CIRCUITS, POWER SYSTEM AND SMART GRIDS Session Chair(s): Prof. Dr. Mukhtiar Ahmed Mahar/ Prof. Dr. Abdul Sattar Sand **Venue:** Video Conference Hall, IIT Building	**SESSION-IV: HEALTH, DISEASE DETECTION AND MEDICAL DEVICES (CONTINUED)** **Venue:** Embedded System Design Lab, IIT Building	**SESSION-V: COMPUTER SCIENCE (CONTINUED)** **Venue:** Conference Room, Electronic Engineering Department Building
12:30 PM	Research on Processes Optimization for Power Cable Manufacturing Industry and Their Effects on Cable Properties Muhammad Yaqoob, Professor Engr. Dr. Asif Ali Shah, Ume Habiba Sidra, Amna Aijaz, Zunera Junejo, Muhammad Moeen	Enhancing Heart Disease Classification Accuracy and Computational Efficiency Using Machine Learning and Feature Optimization Osama Zulfiqar, Urooj Abid, Noman Naseer1	Enhancing Interview Skills through Virtual Reality – A Usability Study Ushna Tasleem, Tehreem Qamar
12:45 PM	Short Circuit Current Analysis of Additional Load on Common Auxiliaries Bus of Nuclear Power Plants using ETAP Saqib Ali, Naila Zareen, Abdul Rehman Abbasi, Iftikhar Ahmad, Faheem Ahmed	Enhancing Classification Accuracy for Diabetes Detection using optimal feature combination Naqash Ahmad, Urooj Abid, Muhammad Talha, Osama Zulfiqar, Mubashir Shah, Noman Naseer	Crypto-currencies and Blockchain: A Mathematical Perspective on Their Evolution Abdul Mateen Shahzaib Asad, Yaqoob Ali Baloch, Muhammad Naeem Akhtar
1:00 PM	Health Index Assessment of 500 kV Auto-Transformer, CT & C.B Sardar Garh Grid Station, Rahim Yar Khan for Preventive Maintenance Abubakar Siddique, Muhammad Talha Sandhu, Waseem Aslam, Muhammad Danyal Ayub, Wazir Haider Ali, Muhammad Usama Shahid	Comprehensive Life Cycle Assessment of Electric Vehicles in Pakistan: Emission Reduction Potential and Policy Insights for Sustainable Mobility Syed Muhammad Ammar Ali Jaffri, Munim Ul Haq	Enhancing Home Safety with Automated Gas Leakage Detection System Using Computer Vision Jehad Ur Rahman, Mohsin Ali Shah, Sana, Dr. Atif Jan

1:15 PM	Insulation Health Monitoring of 11 kV XLPE Cable under the Influence of Thermal Stresses. Abubakar Siddique, Muhammad Moeen, Shahid Atiq, Moeez Ahmad, Abdur Rehman, Muhammad Usama Shahid	Deep Learning to Revolutionize Brain Tumor Detection and Classification Using Multi-Dimensional MRI Jehad Ur Rahman, Sana	Leveraging 3ds Max and Unreal Engine for Comprehensive Interior Design: Detailed 3D Models, Rendering, and Animation Andhika Pramalystianto
1:30 PM	Hardware-Embedded Digital Twins for Advanced Monitoring and Management in Cyber-Physical Smart Grids with RERs and BESS Integration Anis Ur Rehman	Optimized Tomato Leaf Disease Diagnosis Using Feature Extraction and Inception-ResNet-V2 Subhan Subhan, Haidar Husain, Yahya Nur Ifriza	Virtual Reality Ethics: Understanding the Behavioral and Wellbeing Consequences of Virtual Experiences Ayesha Tahir Awan, Ali Daud, Afzal Badshahtle
1:45 PM	Graph Neural Network Analysis Techniques for Power Flow Analysis Nabeel Ahmed Khan Tanolli, Ahmed Raza, Asif Gulraiz	OLOv11-Based Brain Tumor Detection and Segmentation for Clinical Decision Support Abdul Moiz Qarni, Shahzad Anwar, Gul Muhammad Khan	
2:00 PM	Comprehensive report on inverter contoll method for over voltage mitigation Kashan Zamir, Muhammad Shaarif Khan, Tanveer Saleem, Asif Gulraiz	Artificial Intelligence in the Metaverse: Transforming Health in Smart Cities Kainat Naeem, Ali Daud, Tariq Alsahfi, Afzal Badshah, Sana Cheema	
2:15 PM	**Keynote Talk-6:** Nuclear Power as a Dependable Source of Clean Energy for Future: A Review of Pakistan's Nuclear Energy Sector Development Engr. Dr. Abdul Rehman Abbasi, Deputy Chief Engineer & Head (Academics) KINPOE-College of PIEAS **Venue:** Video Conference Hall, IIT Building		
2:45 PM	**LUNCH & NAMAZ BREAK**		

3:45 PM	Efficient Microgrid System with Community Energy Market for Power Price and Emissions Reduction in Pakistan *Nabeel Ul Rehman, Asad Waqar, Toqeer Ahmed, Saeed Mian Qaisar, Essam A. Al-ammar, Habib Ur Rahman Habib*		
4:00 PM	Enhancing Power Grid Resilience with Adaptive ANN-Based Voltage Control Strategies *Muhammad Ayaz, Uroosa Baig, Muhammad Awais*		
4:15 PM	Robust Control of Grid-connected Voltage-sourced Converter based on Sliding Mode Control Salman Tahir, Wajid Mumtaz, Sayed Tassawar Hussain Kazmi		
4:30 PM	Scalable EPS for 2U Cubesats and Beyond Muteeb Khan, Husan Ali, Ali Mujtaba Durrani, Dawar Awan		
CLOSING OF DAY 02			

Time	Program		
Day 03 – April 25, 2025 (Friday)			
8:00 AM	Registration Starts		
8:40 AM	Guests to be Seated		
9:00 AM	Event Starts		
9:05 AM	**Keynote Talk-7: Revolutionizing Electric Mobility Infrastructure Through Wireless Charging Systems** **Dr. Kafeel Ahmed, Swinburne University of Technology, Australia** **Venue:** Video Conference Hall, IIT Building		
	SESSION-VII: COMMUNICATION SYSTEMS AND IOT Session Chair(s): Prof. Dr.Faisal Karim Shaikh/ Prof. Dr. Attiya Baqai **Venue:** Video Conference Hall, IIT Building	**SESSION-VIII: PV, EV, BETTARIES AND RENEWABLE ENERGY** Session Chair(s): Prof. Dr. Amir Mahmood Soomro/Prof. Dr. Abdul Rehman Abbasi **Venue:** Embedded System Design Lab, IIT Building	**SESSION-XI: DEVICES AND OPTOELECTRONICS** Session Chair(s): Dr. Kehkashan Asma/ Dr. Abdul Latif Memon **Venue:** Conference Room, Electronic Engineering Department Building
9:30 AM	Integrating IoT and Cloud Computing Frameworks for Enhanced Weather and Health Monitoring Application Asif Gulraiz, Haseeb Gulraiz, Modiuddin Zia, Shahnila Badar, Syed Sajjad Haider Zaidi	An Integrated Super Capacitor and Li-Ion Battery-based Hybrid Energy Storage Design: An Application for Electric Vehicles Aaqib Raza, Mehak Mubarik, Abdul Ghaffar Bhagat, Hussan Nazim	MD CODE-BASED VLC: A HIGH EFFICIENCY DATA TRANSMISSION FRAMEWORK Muhammad Anus, Muhammad Ibrahim, Dr. Kehkashan Asma Memon
9:45 AM	IoT Integrated Data-Dense Chipless RFID Tag for Wearable Applications Asima Bashir, Yasar Amin, Iqra Jabeen	Design and Control of MIMO Converter for Sustainable EV Charging Stations with Renewable Energy Integration Umair Hussan, Huaizhi Wang, Hamna Rasheed, Mudasser Hassan, Aashir Waleed, Jianchun Peng	Investigating the Effects of AlGaN insertion Layers on Ultravoilet-C MicroLED Performance Shazma Ali, Muhammad Usman

10:00 AM	Smart Trolley with Automated Billing System Muhammad Zulqarnain Anwar, Hareem Kibriya, Ali Tahir, Shams Tabrez Siddiqui, Muhammad Waqas Tahir, Fiza Amar	Optimized Cascaded Position Control of BLDC Motors Considering Torque Ripple Mohammad Vedadi	The Impact of Artificial Sounds on Female Mosquitoes of Two Species Taimoor Azam, Zakria Mehmood, Faizan Ejaz, Kiran Khurshid, Muhammad Tariq, Muhammad Usman Hadi
10:15 AM	Efficient Hybrid Channel Estimation for Massive MIMO in IoT Applications Kiran Khurshid, Nasir Saeed, Nazia Bibi, Muhammad Usman Hadi	Development of AC-AC Matrix converter using Space Vector Modulation techniques Zubair Iqbal, Ansar Abbas Khan, Muhammad Haris, Muhammad Irfan Malik	
10:30 AM	Design of Class AB Power Amplifier to Enhance Detection Range of S-band Radar Module Using GaN HEMT Muhammad Farhan Shahid	Optimized Energy Management for EV Charging Stations Using Soft Actor-Critic Reinforcement Learning Vikram Kumar, Muhammad Ahsan Niazi, Qazi Sajid, Mian Rizwan, Syed Abid Ali Shah, Safia Khatoon	
10:45 AM	AI-based Weather Monitoring System Using IoT Interface Mohammad Osama1*; Arsh-e-barin Khurshid, Umar Farooq, Naqash Ahmad, Mubashir Shah, Syed Ali Ishaq Mohsin	Optimized Design and Performance of a Three-Winding Transformer: A Comprehensive Approach Rida E Abroo, Hasnain Aftab, Nasrullah Zahid, Muhammad Owais	
11:00 AM	**TEA BREAK**		
11:30 AM	**Keynote Talk-8: Leveraging Generative AI for Climate Change** **Dr.Muhammad Farrukh Shahid Syed, FAST-NUCES Karachi** **Venue:** Video Conference Hall, IIT Building		

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12:00 PM	High Gain Dipole Tape Antenna for IoT PocketQube/CubeSat, Satellite Applications Talha Alam, Mazhar Javed, Abdullah All Mamun Anik, Roohi Wahid	IoT-Driven Battery Health Management and Tracking for Eco-friendly and Efficient Electric Transportation Maania Jabbar, Farah Khalid, Muhammad Farhan Arshad, Waqas Tariq Toor	
12:15 PM	A Computer Vision Approach to Personalized Light Dimming for Elderly and Bedridden Care Yasir Javeed, Hafiz Muhammad Mehdi	Techno-Economic Analysis of a 100 KW Solar Power System Shakir Ali, Muhammad Amir Raza, Rehana Naz, Faiz Muhammad, Muhammad Hanif	
12:30 PM	An AI-Driven Solution for Efficient 6G MIMO Networks Performance Muhammad Ali Raza, Kamal Shahid, Muhammad Usman Hadi	Different Stator-Rotor Configurations Analysis of Single Phase Outer Rotor Field Excited Flux Switching Machines Muhammad Zia Javed, Naseer Ahmad, Haris Shahbaz, Hamid Ali Khan, Surat Khan, Shoaib Ahmed	
12:45 PM	The Future of Smart Roads: Technology, Challenges and Potential Afzal Badshah, Ali Daud, Tariq Alsahfi, Muhammad Ramzan, Summair Raza, Tahir Saleem	Comparative Analysis of Electrode Configurations for Bacteria Inactivation Using Electric High-Voltage Pulse Discharge Abdul Basit, Prof. Dr. Salman Amin	
1:00 PM	**FRIDAY PRAYER & LUNCH BREAK**		
2:00 PM	**Keynote Talk-9: Optimized Data Representation for Embedded ConvNets** **Dr. Muhammad Hanif, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI), Topi** **Venue:** Video Conference Hall, IIT Building		
2:30 PM	**CLOSING CEREMONY**		