Conference Program

2nd IEEE International Conference onHorizons of Information Technology and Engineering (HITE 2025)

12th -13th December 2025

OPENING CEREMONY

Friday 12th December 2025 | Duration [09:00 – 11:00] Hrs.|

Venue: UCP Auditorium, Lahore, Pakistan

Time	Activity
[09:00 – 09:03]	Recitation of Holy Quran
[09:03 – 09:05]	National Anthem
[09:05 – 09:07]	Video of UCP -Events
[09:07 – 09:15]	Welcome Note by: **Dr. Muhammad Amjad Iqbal** General Chair - HITE 2025
[09:15 – 09:25]	Opening Address by Pro-Rector **Dr. Hammad Naveed** (Pro-Rector)
[09:25 – 09:55]	Keynote-I- Generative AI in Medicine: Bridging Computational Innovation with Clinical Insight **Dr. Andrew Ware (University of South Wales)**
[09:55 – 10:25]	Keynote-II - : How and why our current know-how of operating low-cost air quality sensors to generate better quality data is still only the tip of the iceberg **(Dr. Stefan Poslad, Queen Mary University of London)**
[10:25 – 10:30]	Chief Guest
[10:30 – 10:35]	Guest of Honor
[10:35 – 10:40]	Presentation of souvenirs
[10:40]	Group photo
	Tea Break
	20 min
[11:15-13:00]	Panel Discussion - The Future of Human-AI Collaboration and Readiness of Pakistan Software Industry - Auditorium - Ms. Syeda Tayyaba Bukhari (Moderator) Dr. Andrew Ware (GogglesMind), Furqan Aziz (InvoZone), Hammad Pervaiz (BearPlex), Jaffar Ali (DataBiqs), Dr. Ayaz Qaiser (Xeven)

DAY 1 (12th December 2025)

Time	*Track Tile: Robotics and Intelligent Systems* Venue: UCP - Conference Hall, Ist Floor, A Building	Time	*Track Tile: Data Science, Analysis, and Big Data* Venue: UCP - Board Room, 1st Floor, A Building	Time	*Track Tile:Power and Energy Systems* Venue: UCP - Lecture Theatre -A111	Time	*Online Overseas Track* Venue: UCP - Lecture Theatre -A111
Session-1	*Session Chair: Dr. Wajahat Qazi, Co-Chair-Dr. Kashif Nasr*	Session-2	*Session Chair: Dr. Sajid Anwar, Co-Chair: Dr. Waqar Quonain (PU)*	Session-3	*Session Chair: Dr. Stefan Poslad, Co-Chair- Dr. Sarwar Ehsan*	Session-4	*Session Chair: Dr. Mahfooz ul Haque, Co-Chair- Dr. Ali Saeed, Resource Person: Zain Asghar*
[11:15-11:40]	*Talk 1* *Building conscious machine: Strength and Weakness of Current Technologies*	[11:15-11:40]	*Talk 2* *AI for Software Engineering*	[11:15-11:40]	*Talk 3* *Power Quality & Energy Efficiency in Modern Grids*	[11:15-11:30]	PID-69:Artificial Intelligence in HRM: Linking Ethical Design, Digital Well-being, and Green HRM for Sustainable Performance
25 Minutes	*Dr. Wajahat Qazi* *COMSATS University Islamabad, Lahore*	25 Minutes	*Dr. Sajid Anwar* *Institute of Management Sciences Peshawar, Pakistan*	25 Minutes	*Dr. Ali Ahmad* *University of Central, Punjab*		Umer, Waseem*; Furnaz, Rakhshanda; Sadiq, Burhan; Naseem, Ammara; Bashir, Tayyeba
						[11:30-11:45]	PID-30:Emission-Oriented Optimization of Energy Systems Using NSGA-II
[11:40-11:55]	PID-77:Deep Reinforcement Learning with ε−δ Hybrid Exploration for Dynamic Robotic Navigation Ahmad, Hafiz*; Hussain, Atif; Akhtar, Muhammad Nehal; Zaheer, Ahmed	[11:40-11:55]	PID-101:Unsupervised Domain Adaptation for Skin Lesion Detection Using Deep Learning Asif, Rosheen*; Bukhari, Faisal	[11:40-11:55]	PID-124:Optimization Framework for Minimizing Impact of EV Charging stations on Distribution System Khalil, Kiran ; Qureshi, Dr. Muhammad Ali*; Haider, Zunaib		Qayyum Butt, Salman ; Niu, Fenglei ; Iqbal, Muhammad Ahtsham *
						[11:45-12:00]	PID-103:Analyzing Impact of Digital Media and Social Networks on Autism Prevalence and Advancing AI-Powered Diagnosis
[11:55-12:05]	PID-84:Hand Gesture Recognition via GNN Attention- Keypoint Features Fusion and Geometric Encoding Razia, Esha Tur; Najam, Shaheryar*; Jalal, Ahmad	[11:55-12:05]	PID-140:Multimodal Fusion for Physical Telerehabilitation using YoLov8 and Machine Learning Classifier Fazal, Aqsa; Najam, Shaheryar*; Jalal, Ahmad	[11:55-12:05]	PID-128:Optimal Placement of PV Systems and Capacitor Banks in Medium Voltage Feeders Using Star Fish Optimization Algorithm Ahmad, Maaz*; Mustafa, Ehtasham		Hazzazi, Noha; saqib, shazia*; Saqib, Hussnain Ahmed; saqib, shazia; Khan, Wasim Ahmad
						[12:00-12:15]	PID-74:Blockchain-Enabled Green Supply Chains: A TOE-Based Framework for Carbon Reduction
[12:05-12:20]	PID-123:Design and Development of an Autonomous Smart Agricultural Robot for Plant Disease Detection Using Machine Learning and Image Processing with GPS-Enabled Precision Pesticide Spraying Zahid, Muhammad *; Javed , Rehman; Nawaz, Hamza Muhammad ; Riaz, Ahsan ; Javed, Ahsan; Farhan, Muhammad	[12:05-12:20]	PID-145:Utility-Aware Big-Data Fraud Detection: An Empirical Comparison on Public Benchmarks using Distributed Feature Pipelines and Sequential Models ALI, ZULFIQAR*; Ur Rahman, Israr ; Abbas, Ali ; Ismail, Muhammad ; Ali Qazi, Rehan; Rasheed, Mehwish	[12:05-12:20]	PID-133:Design and Analysis of 350W Wireless Charging System for Electric Bikes Riaz, Sumama*; Muhammad, Farooq; Adeel, Nahl ; Hamid, Faiza; Ahmed, Abdullah ; Hassan, Aakash; Ali, Asif; Baig, Abdullah; Tauqeer, Tauseef		Taseen, Muhammad*; Yongli, Wang; Sadiq, Burhan; Naseem, Ammara; Bashir, Tayyeba
						[12:15-12:30]	PID-136:AIRD-Syn: An AI-Driven Reconfigurable Chip Architecture for Synthetic Radar Signal Deception Against Anti-Radiation Drones
[12:20-12:35]	PID-127:Physiologically Consistent Postural Control via EHGO-Augmented Nonlinear Compensation Sultan, Dr Nadia*; Shakil, Talha; Islam, Dr. Muhammad Najam ul; Ayaz, Beenish	[12:20-12:35]	PID-153:ORCA: An Advanced Research Platform for Cognitive AI and Data Science Applications Aslam, Fraz*; Saeed, Ali; Hayat, Khizar; Amjad, Muhammad; Ullah, Sibghat	[12:20-12:35]	PID-150:IoT-Enabled Fault Detection and Optimization for Smart Transmission Line Protection Atta, Mohsin*; Zahoor, Samaira ; Hameed, Owais; Ahmed, Waqas; Hassan, Ateeq		Waseem, Sandeela*; Waseem, Syed Ahmad
						[12:30-12:45]	PID-109:A Taxonomy of AI-Based Phishing Detection Across Multiple Mediums
[12:35-12:50]	PID-134:HARR-NET: A Novel Silhouette-Aware Fusion Method Using HSE-Net for Reliable UAV Human Activity Recognition Shahid, Harris; Najam, Shaheryar*; Jalal, Ahmad	[12:35-12:50]	PID-67:Anomalous Human Action Recognition and Crime Event Classification using Deep Learning Aslam, Kainat; Ali, Syed*; Dar, Ehtesham Ul Haq; Hassan, Malik Tahir	[12:35-12:50]	PID-32:Improved Sign Language Recognition via Dynamic Features and Spatiotemporal Transformer Kausar, Zarnab; Najam, Shaheryar*; Jalal, Ahmad		Chua , Cheng Han; Adnan, Kiran*; Yichiet, Aun
						[12:45-13:00]	

[12:50-15:00]	Jumma Break & Lunch Break

Conference Hall, 1st Floor, A Building

[15:00-15:25]	Keynote-III - : AI on the Leading Edge (Dr Yasir Ayaz, NCAI, Pakistan)
[15:25-15:50]	Keynote-IV - : Developing a Decision Support System Software for Real Estate Property Volarization as to Use in Virtual Markets by Data Mining (Dr. İlhan Tarımer, Muğla Sıtkı Koçman University)

Time	*Session Chair: Dr. Andrew Ware, Co-Chair: Dr. Imran Arshad (UCP)*	Time	*Session Chair: Dr. İlhan Tarımer, Co-Chair: Dr. Mohsin Ashraf*	Time	*Session Chair: Dr. Abbas Khalid, Co-Chair: Dr. Mahfooz ul Haque*
Session-5	*Track Tile: Deep Learning Applications* Venue: UCP - Conference Hall, Ist Floor, A Building	Session-6	*Track Tile: Artificial Intelligence - I* Venue: UCP - Board Room, 1st Floor, A Building	Session-7	*Track Tile: Blockchain Platforms, Cyber Security, Network and Distributed Systems* Venue: UCP - Lecture Theatre -A111
[15:50-16:15]	Talk 4 *Beyond Human Insight: How AI Is Reshaping Modern Oncology*	[15:50-16:15]	Talk 5 *Core Unlearning: A Hybrid Gradient-Efficient Framework for Multi-Modal Model Rewriting via Unified Exact and Approximate Optimization*	[15:50-16:15]	Talk 6 *Speech Coding Fundamentals & Standards*
25 Minutes	*Dr. Amjad Zafar* *Allama Iqbal Medical College, Lahore*	25 Minutes	*Dr. Saeed Iqbal Khattak* *Shenzhen University, China*	25 Minutes	*Dr. Sarwar Ehsan* *University of Central, Punjab*
[16:15-16:30]	PID-9:Towards Robust Breast Cancer Diagnosis: A Hybrid Deep Learning Ensemble Framework Shahzad , Inzamam; Raza, Asif; Maqsood, Hasaan; Khan, Saif Ur Rehman*; Ali, Ghazanfar	[16:15-16:30]	PID-88:Robust Flood Area Segmentation through Federated Learning on Distributed Remote Sensing Data Islam, Muhammad Saif ul*	[16:15-16:30]	PID-65:WACE-SCAS: A Static-Dynamic Framework for Interference Aware Scheduling in Asymmetric Multicores Kamran, Syeda Sughra *; Ali Khan , Dr.Zeeshan
[16:30-16:45]	PID-15:Diabetes Detection with Hybrid Deep Learning Models Iqbal, Haseeb*; Gillani, Billal; Ilyas, Asif	[16:30-16:45]	PID-35:Sign Language Interpreter Nawaz, Umar*; Ahmad, Hassaan; Amir, Moeez; Ghulam Nabi, Faiza; Khalid, Nabeel	[16:30-16:45]	PID-151:A Novel Six Dimensional Hyperchaotic Map with Enhanced Dynamical Properties for Cryptographic Applications Saleem, Muhammad Rehan; Muzaffar, Muneeb*; Farooq, Asif; Hameed, Muhammad Umar
[16:45-17:00]	PID-95:A Modified U-Net with Focal Modulation for Robust Breast Lesion Segmentation Arshad, Khadija*; Choudhry, Imran Arshad; Saleem, Gulshan	[16:45-17:00]	PID-121:Is Reasoning in LLMs and AGI an Illusion or Reality? Umair, Muhammad*; Amin, Ezaan; Masood, Haris	[16:45-17:00]	PID-87:Enhancing Transparency in Humanitarian Crowdfunding: A Blockchain and MVC-Based Approach for Non-Profit Organizations in Pakistan Tahir, Touseef*; Munir, Hannan; Khan, Ayesha Rashid; Qaiser, Aimen ; Jahankhani , Hamid ; Hassan, Bilal ; Noman, Mohammad

Closing Day 1

DAY 2 (13th December 2025)

Conference Hall, 1st Floor, A Building

[09:30-09:55] Keynote-V - : From Co-Design to Co-Existence: Human-Centered Robotics and AI in the Real World
(Dr. David Feil-Seifer, University of Nevada, Reno, USA)

Time	*Track Title: AI Powered Diagnosis*	Time	*Track Artificial Intelligence - II*	Time	*Track Tile: Artificial Intelligence - III*	
Session-8	*Venue: UCP - Conference Hall, Ist Floor, A Building*	Session-9	*Venue: UCP - Board Room, 1st Floor, A Building*	Session-10	*Venue: UCP - Lecture Theatre -A111*	
Session Chair:Dr. Ayyaz Hussain , Co-Chair: Dr. Naveed Hussain		*Session Chair: Dr. Zahoor Jan, Co-Chair: Dr. Maryam Iqbal*		*Session Chair: Dr. Arfan Jaffar, Co-Chair: Dr. Muhammad Umair (UCP)*		
[09:55-10:20]	**Talk 7**	[09:55-10:20]	**Talk 8**	[09:55-10:20]	**Talk 9**	
	Deep learning & Opportunities for Electronic Design and Automation Industry		*AI and Economic growth, Challenges and Opportunities*		*Healing with Intelligence: The Role of AI in Next-Gen Healthcare*	
	Dr. Ayyaz Hussain		Dr. Zahoor Jan		Dr. Arfan Jaffar	
25 Minutes	*Quaid-i-Azam University, Pakistan*	25 Minutes	*Islamia College Peshawar (Chartered University)*	25 Minutes	*Superior University, Lahore*	
[10:20-10:35]	**PID-105:Predicting Stroke Risk: A Comparison of ML and DL Approaches**	[10:20-10:35]	**PID-137:Deep Learning Enhanced Multiparametric MRI for Prostate Cancer: Reducing Overdiagnosis and Improving Risk Stratification**	[10:20-10:35]	**PID-76:Intelligent Transportation Framework for Vehicle Detection and Tracking in Urban Scenes**	
	Arif, Awais*; Fajar, Maliha		Ahmed, Daniyal*; Hassan, Muhammad ; Gilani, Hassan; Khan, Muhammad Sheraz; Afshan, Mehwish		Ahmed, Muhammad Adeel*; Rafique, Adnan Ahmed; Jalal, Ahmad	
[10:35-10:50]	**PID-106:Autism Detection in Children from Facial Landmarks and MRI images Using a Deep Learning Model**	[10:35-10:50]	**PID-71:Machine Learning based Predictive Analytics of Student Retention Using Transcript Data**	[10:35-10:50]	**PID-82:Novel Directional Profiling and Transformer-Based Activity Recognition via Hybrid Feature Fusion**	
	Ahmed, Daniyal*; Hassan, Muhammad ; Afshan, Mehwish; Gilani, Hassan		Mumtaz, Mamoona; Tahir, Faiza *		Fatima, Eman*; Danish Khan, Muhammad Hasan ; Najam, Shaheryar	

[11:15-14:15] Robotics Workshop - Robotics Lab - A-CL-211 - 2nd Floor, A Building
Dr. Khawaja Fahad (NUST) and Dr. Maryam Iqbal (Bahria University, Islamabad)

[11:15-14:15] Remote Sensing Tutorial - Computer Lab - A-CL-210 - 2nd Floor, A Building
Dr. Adnan Siddique and Ehtasham Naseer (Information Technology University)

Namaz & Lunch Break

Time	*Track Tile: Electronic Devices, Circuits, and Communication Systems*	Time	*Track Tile: Artificial Intelligence - IV*	Time	*Track Tile: Artificial Intelligence - V*	
Session-11	*Venue: UCP - Conference Hall, Ist Floor, A Building*	Session-12	*Venue: UCP - Board Room, 1st Floor, A Building*	Session-13	*Venue: UCP - Lecture Theatre -A111*	
Session Chair:Dr. Kamal Shahid , Co-Chair: Dr. Ali Ahmad		*Session Chair: Dr. Saira Andleeb, Co-Chair: Dr. Saeed Iqbal Khattak*		*Session Chair:Dr. Khawaja Fahad, Co-Chair: Dr. Adnan Siddique*		
[15:00-15:25]	**Talk 10**	[15:00-15:25]	**Talk 11**	[15:00-15:25]	**Talk 12**	
	Intelligent Energy Networks: Merging Smart Grid Technologies with AIEnhanced Communication Systems		*MRI-Based Heart Disease Diagnosis: An Automated IBNet9X-DenseNet8X Framework for Optimal Feature Fusion and Classification*		*RemoteSOS4EEZ – Monitoring Oil Spills in Pakistani Waters using Remote Sensing*	
	Dr. Kamal Shahid		Dr. Muhammad Nazir		Dr. Adnan Siddique	
25 Minutes	*University of the Punjab*	25 Minutes	*International Islamic University Islamabad , Pakistan*	25 Minutes	*Information Technology University, Pakistan*	
[15:25-15:40]	**PID-99:Flexible and Multifunctional Graphene Based Ecoflex Sensor for Radial Artery Pulse Detection**	[15:25-15:40]	**PID-19:CrimeXplain: A Comparative Study of Deep and Transformer Models with Explainable AI for Crime Headline Classification**	[15:25-15:40]	**PID-42:A Novel Human Action Recognition over Body Part Labeling for Telerehabilitation Exercises**	
	Zahoor, Rizwan; Ali, Babar; Murtaza, Ghulam; Bilal, Hafiz Muhammad; Ishfaq, Muhammad; Tufail, Faisal*		Firdoos, Shamyla*; Ul Hassan, Muhammad Sheraz; Masih, Adven		Ali, Shahzaib ; Najam, Shaheryar*; Jalal, Ahmad	
[15:40-15:55]	**PID-112:Robust MPPT for Photovoltaics: Interval Type-2 Fuzzy Logic with Experimental Validation**	[15:40-15:55]	**PID-120:The Irrefutable Reality of Climate Change in Pakistan using Data Analysis and Machine Learning**	[15:40-15:55]	**PID-53:Individual Sports Activity Monitoring using Yolov9 and Deep Neural Network**	
	Butt, Bakhtawar; Hassan, Syed Zulqadar*; Masood, Arsalan; Kamal, Tariq		Bazai, Sibghat Ullah*; Ahmed, Bilal ; Hussain, Shumaila ; Ghafoor, Muhammad Imran ; Atif, Muhammad ; Bhatti, Uzair Aslam		Shaker, Zaryab*; Rafique, Adnan Ahmed; Jalal, Ahmad	
[15:55-16:10]	**PID-149:Optimized LED Placement for Indoor Visible Light Communication: Trade-offs Between Uniform Coverage and High Throughput**	[15:55-16:10]	**PID-129:Detecting Mental Health Signals in Tweets: A Machine Learning and NLP Approach**	[15:55-16:10]	**PID-102-Transforming Crop Disease Classification with Hybrid Quantum Deep Learning**	
	Saadi, Muhammad*; Khosravi, Mohammadreza; Mumtaz, Shahid; Tsimenidis, Charalampos		Sohail, Aliza ; Shahid, Zoha ; ULLAH BAZAI, SIBGHAT ; batool, isma*; Imran Gafoor, Muhammad ; Bhatti, Uzair Aslam		Sarwar, Muhammad Shoaib; Batool, Komal	

Venue: UCP Auditorium

[16:20-17:00] Dr. Shahid Mumtaz
Keynote VI- 6G, AI, and the Future of Everything: A Blueprint for Society 5.0
Nottingham Trent University
Conference Closing Ceremony