Conference Program

Horizons of Information Technology and Engineering (HITE-2024)

15th -16th OCTOBER 2024 OPENING CEREMONY

Tuesday 15th October 2024 | Duration [09:30 – 11:10] Hrs.|

Venue: UCP Auditorium, Lahore, Pakistan Time [09:00 - 09:03] Recitation of Holy Quran [09:03 - 09:05] National Anthem [09:05 - 09:07] Video of UCP -Events Welcome Note by: [09:07 - 09:15] Dr. Muhammad Amjad Iqbal Dean , FoIT UCP Lahore Opening Address by Pro-Rector [09:15 - 09:25] Dr. Hammad Naveed Keynote-I - Virtual Reality: ACatalyst for Upskilling Medical Staff in Developing Economies Prof. Dr. Andrew Ware [09:25 - 10:00] Professor University of South Wales, UK Keynote-II - AI on the Leading Edge Prof. Dr. Yasar Ayaz [10:00 - 10:35] Chairman and Central Project Director National Center of Artificial Intelligence (NCAI) [10:35 - 10:45] **Guest of Honor** Affiliation Remarks by: [10:45 - 10:55] Chief Guest Affiliation [10:55 - 11:10] Presentation of souvenirs

30 min

DAY 1 (15th OCTOBER 2024)

Exhibition Visit and Tea Break

[11:10]

Group photo

DAY 1 (15th OCTOBER 2024) SESSION-I							
Time	Track Tile: Artificial Intelligence, and Data Science Track	Time	Track Tile: Remote Sensing and Robotics	Time	Online Track - Overseas		
Session-1	Venue: UCP - Conference Hall, A Building	Session-2	Venue: UCP - Board Room, A Building	Session	Venue: UCP - BCL-202, B Building		
Session Chair: Dr. Waqar Quonain (NCAI-PU), Co-Chair: Dr. Abbas Khalid (UCP), Dr. Zulqadar (UCP)		Session Chair: Dr. Rana Asif Rehman (Fast-NU), Co-Chair: Dr. Adnan Siddique (ITU)		Session Chair: Dr. Mahfooz (UCP), Dr. M. Umair (UCP), Dr Ali Ahmad (UCP)			
[12:00-12:40]	Talk 1: The Future of Autism Care: A Machine Learning Perspective	[12:00-12:25]	Talk 2: Artificial Intelligence for Robotics	[12:00- 12:20]	P_ID:11- IOT and Blockchain: Transforming Demand Response in Smart Grids		
Hrs	Dr. Sheeraz Akram	25 Minutes	Dr. Khawaja Fahad lqbal		Muhammad Athar, Bin Li, Zaid Bin Tariq Baig, Ali Muqtadir, Shiming Tian and Songsong Chen		
40 Minutes	Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia		National University of Sciences and Technology (NUST), Islamabad	[12:20- 12:40]	P_ID: 12- Blockchain-Enabled Demand Response: A Sustainable Approach to Energy Management		
[12:40-12:55]	P_ID:2- Steering Angle Prediction of Autonomous Vehicle Using Machine Learning		Talk 3: Oil Spills in Pakistan's Exclusive Economic Zone: How remote sensing is helping us monitor marine pollution?		Muhammad Athar, Bin Li, Zaid Bin Tariq Baig, Ali Muqtadir, Shiming Tian and Songsong Chen		
	Khan, Muhammad Shahid*; Omer, Abdul Rehman; Yousafzai, Abdullah	[12:25-12:50]	Dr. Adnan Siddique	[12:40- 13:00]	P_ID:113- Innovative Materials for Enhanced Heat and Mass Transfer in Membrane Distillation		
[12:55-13:05]	P_ID:5- Enhancing Concrete and Pavement Crack Prediction through Hierarchical Feature Integration with VGG16 and Triple Classifier Ensemble	25 Minutes	Information Technology University of Punjab, Lahore		Muhammad Arslan, Xian Haizhen, M. Nouman Khalid Khan, Kashif Ali and Zaid Bin Tariq Baig		
	Saif Ur Rehman Khan, Asif Raza, Inzamam Shahzad, and Ghazanfar Ali		Talk 4: Robotics and Sensing in Smart Agriculture	[13:00- 13:20]	P_ID:33- Study on the Impact of AI-Powered GHRM Practices on Employee Behavior and Organizational Performance: Evidence from SMEs of Pakistan		
[13:05-13:20]	P_ID:6- Personalized Email Marketing: A Machine Learning Approach for Higher Engagement and Conversion Rates	[12:50-13:15]	Dr. Yasir Niaz		Waseem Umer, Rukhshanda Fawad, Tayyeba Bashir,Burhan Sadiq and Ammara Naseem		
	Abdullah, Nida Hafeez, Muhammad Umar Nasir, Maryam Shabbir, Shahid Mehmood	25 Minutes	Punjab Safe City Authority	[13:20- 13:40]	P_ID: 34- A study on the Impact of how Al-powered Green Development Influence Employee Green Behavior within an Organization		
[13:20-13:35]	P_ID:27- A New Regularization-Based Continual Learning Framework	[13:15-13:30]	P_ID:97-FPGA-Enabled Rapid Prototyping of Isolated Bidirectional Full-Bridge DC-DC Converter Control for Electric Vehicle Applications		Waseem Umer, Rukhshanda Fawad, Tayyeba Bashir,Burhan Sadiq and Ammara Naseem		
	Sajida Hassan, Nadia Rasheed and Muhammad Ali Qureshi		Ahsan Ali, Syed Jahania Shah, Khuzaima Ali Khan, Niha Faisal, Zohaib Zia, Ishtiyaq Makda, and Ahmad Usman	[13:40- 14:00]	P_ID:56- Expanding Horizon: The Role of Reconfigurable Intelligent Surfaces in Enabling Massive Connectivity		
[13:35-13:50]	P_ID:40- Transforming Parkinson's Disease Diagnosis Using Deep Neural Network	[13:30-13:45]	P_ID:61- Deep Learning on Sentinel-1 SAR Imagery for Ship Detection Using YOLO-V8 Model		Muhammad Shoaib Ayub, Pablo Adasme, Demostenes Zegarra Rodriguez, Muhammad Saadi, Thokozani Shongwe and Ainur Zhumadillayeva Kanadilovna		
	Muhammad Hamza Farooq, Hafiz Umer Daraz, Muhammad Kamran Khan , Usman Ghani Khan		Malik Ahmad Javed, Ehtasham Naseer, and Muhammad Adnan Siddique				
[13:50-14:05]	P_ID:48- Age-Invariant Face Recognition: A Comprehensive Study of Methods, Datasets, and New Algorithm for Immigration Control	[13:45-14:00]	P_ID:125- Spatio-Temporal Analysis of Annual NO2 Concentration and Population Exposure in Palestine and Israel				
	Mohsin Sharif, Muhammad Awais, Abdullah, Muhammad Huzaifa Tariq, Dr. Allah Bux Sargano and Prof. Dr. Zulfiqar Habib		Muhammad Nauman Arshad , Malik Ahmad Javed, Ehtasham Naseer and Muhammad Adnan Siddique				
[14:05-14:20]	P_ID:82-Predictive Analytics in Cognitive Radio: Neural Network Based Approach for Spectrum Sensing	[14:00-14:15]	P_ID:75- Spatial Recognition of Citrus Trees, Seedlings, and Gaps: A Deep Learning and Geometric Approach on Satellite- Based RGB Imagery				
	Jehanzaib Nasim Javed*, Mohsin Khalil*, Syed M. Kazam Abbas Kazmi and M. Saad Ikram		Muhammad Hamza Hussain and Syed Atif Mehdi				
[14:20-14:35]	P_ID:79- Enhancing Transparency in Humanitarian Crowdfunding: A Blockchain and MVC-Based Approach for Non-Profit Organizations in Pakistan						
	Hanan Munir, Ayesha Rashid Khan, Aimen Qaiser, Touseef Tahir, Farooq Ahmad						

Lunch Break (14:30-15:10)

Session Chair: I	Prof. Dr. Andrew Ware (USW), Co-Chair: Dr. Mohsin Ashraf (UCP)	Session Chair: P	Prof. Dr. Ayyaz Hussain (QAU), Co-Chair: Dr. Naveed Hussain (UCP)						
Time	Track Tile: Artificial Intelligence, and Data Science Track, Software Engineering	Time	<u>Track Tile: Artificial Intelligence, and Data Science Track, Software</u> <u>Engineering</u>						
Session-3	Venue: UCP - Conference Hall, A Building	Session-4	Venue: UCP - Board Room, A Building	(CCP)					
[15:10-15:50]	Talk 5 Al & Oncology: The oncologist's perspective	[15:10-15:50]	Talk 6 Applications of Deep Learning in Medical Imaging	Aunir					
Hrs 40 Minutes	Dr. Amjad Zafar	Hrs 40 Minutes	Dr. Muhammad Nazir HITEC University Taxila, Pakistan	m E					
40 Minutes [15:50-16:05]	Allama Iqbal Medical College P_ID:10- IoBNT-ABAC: An Access Control Model for the	40 Minutes [15:50-16:05]	P_ID:122- Scrum in Action: Highlighting the Motivations and	/uzan					
[13.30 10.03]	Internet of Bio Nano Things	[13.30 10.03]	Strategies behind its Practical Implementation Ayesha Saleem, Igra Tariq, M. Saad Bin Ilyas, Muhammad Aadil Butt,	e (ITU)					
	Sidra Zafar, Ahmad Kamran Malik and Komal Bashir		Arslan Tariq and Bushra Rizwan P_ID:19- Classifiers for Unjustified Malware Detection of	Siddique (ITU) and Person: Raja Muzammil					
[16:05-16:20]	P_ID:145- NRB-BiLNET: A Novel Deep Learning Architecture for Crop Leaf Disease Classification	[16:05-16:20]	Android Devices Data Consuming SMOTE and ROC-AUC						
	Irfan Haider, Muhannad Nazir, Muhammad Attique Khan and		Metrics Muhammad-Haseeb-Zia, Ali Hussain, Muhammad-Hamza	shop by Dr. Adnan Building (Resource					
	Mudassar Raza P_ID:135- (Sk)^2: Saadaali Salamti fi Kidney Kanceri –			o by D					
[16:20-16:35]	predicting survivability of kidney cancer using a multi – tier classification framework	[16:20-16:35]	P_ID:85- Improving Intrusion Detection System using Feature Extraction	Workshop 33, C Buildi					
	Rafia Mubashar Gondal, Bilal Wajid, Faria Anwar, and Imran Wajid		Usman Inayat, Rida Ayesha, and Sajid Mahmood	403, C					
[16:35-16:50]	P_ID:81- EMG Based Control of Prosthetic Hand for Trans	[16:35-16:50]	P_ID:102- Improved Neural Network Compression using	Sensing), CCL-40					
[10.55-10.50]	Humeral Amputee Nagash Ahmad, Muhammad Talha and Zareena Kausar	[10.55-10.50]	Generative Adversarial Networks Salaar Khan, Syed Meharullah and Ali Murtaza	eer (ITU),					
[16:50-17:05]	P_ID:57- MACHINE LEARNING AND DEEP LEARNING TECHNIQUES TO DETECT MUTATION IN GENE SEQUENCES FOR EARLY DETECTION OF BREAST, THYROID, LOWER GRADE GLIOMA, SARCOMA, AND GASTRIC CANCER	[16:50-17:05]	P_ID:124- A Novel Approach for Hashtag Topic Classification with Multimodal Features and VLMs	Remote Sensing Worl Ehtasham Naseer (ITU), CCL-403, C					
	Muhammad Ayaz Farid Shah		Hafiza Tayyaba Zafar, Bilal Tahir and Muhammad Amir Mehmood	Ž					
[17:05-17:20]	P_ID:141- An IoT-enabled Smart-phone as Digital Doctor	[17:05-17:20]	P_ID:74- Machine Learning Based Early Detection for Brain						
	(SPADD) Empowered Machine Learning Techniques Zahid Hasan, Kashif Iqbal, Muhammad Zubair, Bi Bi Maryam, Nafisa		Stroke Abdullah Khan, Hasnain Abbas Sherazi, Nimra Saleem and Dr. Waqas						
	Tahir and Hammad Ghulam Mustafa		Tariq Toor Closing Remarks Day 1						
			DAY 2 (16th OCTOBER 2024)						
	Track Title: Electronic Devices, Circuits, and Communication								
Time	Systems, Power and Energy	Time Session-6	Track Title:Artificial Intelligence, and Data Science Track	Ahad					
Session-5	Venue: UCP - Conference Hall, A Building		Venue: UCP - Board Room, A Building	initan					
Session Chai	rr: Dr. Stefan Poslad (QMUL), Co-Chair: Dr. Sarwar Ehsan (UCP)	Session Chai	r: Prof. Dr. Arfan Jaffer, Co-Chair: Dr. Muzammil Hussain (UCP)	ider S					
[09:30-10:10]	Talk-7: Power Electronics for Green, Reliable and Efficient Data Centers	[09:30-10:10]	Talk-8: Title	on: Ha					
40 Minutes	Dr. Ahmad Usman Habib University, Karachi	40 Minutes	Prof. Dr. Arfan Jaffar Superior University, Lahore	. Pers					
[10:10-10:35]	P_ID:9- Iterative DPD based Multi-Objective Optimization of RF Power Amplifier for Increased Linearity and Output Power	[10:10-10:35]	P_ID:126- Detecting Stress from Competitive Gaming using Machine Learning-Based ECG Classification	Resource					
	Humayun Zahid,M. Kamran Saleem and Abdul Maalik		Aleena Kamal, Minahil Kamal, Faisal Amin, Muhammad Falak Anjum) шоо					
			and Hamza Ghazanfar Toor	inar R					
[10:35-10:50]	P_ID:58- Optimization and Performance Evaluation of Transformerless HERIC and H5 PV Inverters: Minimizing Leakage Current, Enhancing Efficiency, and Waveform Control	[10:35-10:50]	P_ID:130- Exploring the Application of Machine Learning for Soil Moisture Forecasting over In-situ Soil Moisture Sensors Network	NUST, Webin (UCP))					
[10:50-11:05]	Hafiz Haider Ali Muazzam P_ID:76- Fast Implementation of Eta-T pairing on FPGAs	[10:50-11:05]	Muhammad Ahmad, Hamza Rafique and Abubakr Muhammad P_ID:137- Al-Driven Chatbot for Intrusion Detection in Edge Networks: Enhancing Cybersecurity with Ethical User Consent	aja Fahad (
	Waseem Aslam and Asim Raza		Mugheez Asif, Abdul Manan, Abdul Moiz ur Rehman, Mamoona	Khaw					
[11:05-11:20]	P_ID:134- Stepper-based Precise Paper Cutting Machine with	[11:05-11:20]	Naveed Asghar and Muhammad Umair P_ID:24- An Integrated Data Warehouse to Identify HIV/AIDS	y Dr.					
[11.05-11.20]	PLC And HMI Muhammad Zia Ur Rahman, Muhammad Shams Shabbir,	[11.05-11.20]	Prevalence	shop E					
	Muhammad Hassan, Mehmood UI Hassan, Haroon Ahmad and Aashir Waleed		Aneela Mehmood	Vorks					
[11:20-11:35]	P_ID:88- Hierarchal Optimization of FP Algorithm for Solar	[11:05-11:20]	P_ID:51- Infodemic Vs Pandemic: Covid-19 Crisis in Pakistan	otics V					
	Photovoltaic Systems Naeem Arif, Muhammad Mateen Afzal Awan, and Aun Haider		Due To Rumors on Twitter Hafsa Naveed, Rabia Younas, Hafiz Burhan UI Haq*, Sabir Abbas, Sidra	Robi					
	,		Aslam and Muhammad Zunnurain Hassan						
Specian Chaire	Dr. Khawaja Fahad Iqbal (NUST) ,Co-Chair: Dr. Imran Arshad (UCP)	Saccion Chri	Tea & Exibition Visit (35 Minutes) Prof. Dr. Amjad Hussain (Fast-NU), Co-Chair: Dr. Ali Saeed (UCP)						
Time Session-7	<u>Track Tile: Artificial Intelligence, and Data Science Track</u> Venue: UCP - Conference Hall, A Building	Time Session-8	<u>Track Tile:Deep Learning Track</u> Venue: UCP - Board Room, A Building						
[11:55-12:35]	Talk-9: Gamification Tool for Social Engineering Attack Awareness	[11:55-12:35]	Talk-10: Deep Learning – Past, Present and Future						
40 Minutes	Dr. Vasaki Ponnusamy	40 Minutes	Prof. Dr. Ayyaz Hussain						
[40.05.40.54]	Higher Colleges of Technology UAE P_ID:59- Neurocognitive Approach for Assessing Visual	[40.05.15.51]	Quaid-i-Azam University Islamabad P_ID:92- Next-Generation Healthcare: Design and						
[12:35-12:50]	Engagement in Neuromarketing	[12:35-12:50]	Implementation of a Smart Medicine Vending System						
	Amjid Hussain, Sanay Muhammad, Umar Saeed, Sheharyar Khan, Sadam Hussain Noorani, Noshina Ishague and Muhammad Hashir		Muhammad Zubair, Aashir Waleed, Ans Rehman, Farhan Ahmad, Mohammad Islam and Saqib Javed						
[12:50-13:05]	P_ID:70- Robust Federated Learning : Defence against Model	[12:50-13:05]	P_ID:99- Interpretable Deep Learning Classifier Using						
[12.00 10.00]	Poisoning using Mean Filtering Abdul Rehman Omer, Shahid Khan, and Abdullah Yousafzai	[12.55 15.55]	explainable AI For Non-Small Cell Lung Cancer Arooj Shabbir and Muhammad Zubair						
[13:05-13:20]	P_ID:72- Multiclass Classification of Retinal Disorders Using Optical Coherence Tomography Images Zahra Shahzadi and Muhammad Zubair	[13:05-13:20]	P_ID:100- Anticancer Drug Response Prediction using Deep Learning Awais Raza Zaidi, Abdul Majid and Muhammad Bilal						
[13:20-13:35]	P_ID:90- Machine Learning Insights into Retail Sales Prediction: A Comparative Analysis of Algorithms	[13:20-13:35]	P_ID:110-Autism Detection in Children by Features Extraction and Classification Using a Deep Learning Model						
	Muhammad Zubair, Ans Rehman, Aashir Waleed, Farhan Ahmad, Mohammad Islam and Saqib Javed		Daniyal Ahmed, Muhammad Ammar Hassan and Muhammad Zubair						
[13:35-15:35]	·	Namaz & Lunch Brea	k						
	Venue: UCP Auditorium								
[15:35-16:10]	Keynote-III - The Rise of Things that can Think - Internets of Intelligent Things (IoIT) by Dr Stefan Poslad (Queen Mary University of London)								
[16:10-16:45]									
	Conference Closing Ceremony								