

INMIC 2022

The Conference Program

Day 1: Friday, October 21, 2022

Plenary Session (Main Auditorium, Block A)

09:00 – 09:15	Guests to be seated		
09:15 – 09:25	Tilawat - e - Quran		
09:25 – 09:40	Welcome Speech (Rector Dr Aftab Maroof)		
09:40 – 10:00	Address by Chief Guest		
10:00 – 10:10	Updates on the conference statistics by the Program Chair		
10:10 – 11:00	Keynote Address, Title: Blockchain Technology Relevance to Pakistan Professor Dr. Shoab Ahmed Khan (Co-founder and Chancellor of CASE, CEO of CARE)		
11:00 – 11:30	Morning Tea		
11:30 – 12:10 (Main Auditorium)	Invited Talk, Title: AI on the Leading Edge Professor Dr Yasir Ayaz (Founding Head of Department of Robotics and AI at NUST)		
	Session 1 (Main Auditorium, Block A) Chair: Dr Bilal Ali Rizvi (NUST) Co-chair: Dr Ahmad Raza Shahid (NUCES)	Session 2 (MEDC, Room117, Block A) Chair: Dr Syed Ali Hassan (NUST) Co-chair: Dr Mukhtar Ullah (NUCES)	Session 3 (Conference Hall, Room. 118, Block A) Chair: Dr Usman Khan (NUST) Co-chair: Dr Arshad Khan (NUCES)
12:10 – 12:35	An Ensemble Approach for IoT Firmware Strength Analysis using STRIDE Threat Modeling and Reverse Engineering <i>Muhammad Shaharyar Yaqub, Haroon Mahmood, Ibrahim Nadir and Ghalib Asadullah Shah</i>	An Efficient Fault-Prediction Mechanism for Improving Yield in Industry 5 <i>Fariha Maqbool, Haroon Mahmood and Hasan Ali Khattak</i>	Performance Evaluation of Priority Mechanisms for Industrial Wireless Sensor Networks <i>Anwar Ahmed Khan and Shama Siddiqui</i>
12:35 – 13:00	Plants disease classification using deep leaning <i>Abdul Rehman and Labiba Fahad</i>	Enhancing Short-Term Load Forecasting using ES-dRNN with Context Vector <i>Qurat-Ul Ain and Sohail Iqbal</i>	Dual-band chiral metasurface with linear asymmetric transmission and orthogonal polarization conversion over a wide incidence angle for Ku-band and 5G applications <i>Aisha Bibi, Muhammad Ismail Khan and Imdad Khan</i>
13:00 – 13:25	BaggedUNet: Deep Machine Vision approach for Polyps Segmentation in Gastrointestinal Tract <i>Syed Muhammad Faraz Ali, Muhammad Atif Tahir and Abdullah Khalid</i>	Recognition of faces wearing masks using skip connection based dense units augmented with Self Restrained Triplet Loss <i>Muhammad Aasharib Nawshad, Zuhair Zafar and Muhammad Moazam Fraz</i>	Design of Power Divider for Groove Gap Waveguide at MM-WAVE SPECTRUM <i>Ghiayas Tahir and Arshad Hassan</i>
13:25 – 14:40	Jumma Prayer and Lunch		
14:40 – 15:20 (Main Auditorium)	Invited Talk, Title: Deep Convolutional Neural Networks and its Applications Professor Dr Asif Ullah Khan, Department of Computer and Information Sciences, PIEAS		
	Session 4(Main Auditorium,Block A) Chair: Dr Syed Imran Ali (NUST) Co-chair: Dr Hammad Majeed (NUCES)	Session 5 (MEDC, Room117, Block A) Chair: Dr Farrukh Aziz (IST) Co-chair: Dr Atta-Ul-Aziz Ikram (NUCES)	Session 6 (Conference Hall, Room. 118, Block A) Chair: Chair: Dr. Gul Hassan (IIUI) Co-chair: Dr Hassan Saif (NUCES)
15:20 – 15:45	CMRUTU: Code Mixed Roman Urdu (Roman Urdu and English) to Urdu Translator <i>Muhammad Wisal, Abbas Mustafa and Umair Arshad</i>	Human Activity Recognition via Smartphone Embedded Sensor and Yeo-Johnson power transformation optimization <i>Danyal Khan and Ahmed Jalal</i>	Device Interoperability for Industrial IoT using Model Driven Architecture <i>Anam Amjad, Farooque Azam and Muhammad Waseem Anwar</i>
15:45 – 16:10	A Robust Algorithm for Candidate Pruning and Feature Weight Generation in E-Recruitment System	Hybrid deep learning based POS tagger for Roman Urdu	Validation of Small Signal Model of a LLC Resonant Converter Based HVDC Modulator

	<i>Saeed Rehman, Shujaat Hussain and Kifayat Ullah Khan</i>	<i>Alishba Laeeq, Masham Zahid, Abdulwadood Waseem and Umair Arshad</i>	<i>Noman Khan, Sohail Ahmed Khan, Tanveer Abbas and Muhammad Osama Afridi</i>
16:10 – 16:35	Identifying and Profiling the User Interest over Time using Social Data <i>Iqra Ali and M. Asif Naeem</i>	Unveiling the Potential of Vision Transformer Architecture for Person Re-identification <i>Nazia Perwaiz, Muhammad Shahzad and Muhammad Moazam Fraz</i>	Acupressure based Therapeutic Smart Shoe for Developing Countries <i>Asma Iqbal, Syed Muhammad Razi Kazim Naqvi, Sumbal Zahra Ameen and Namra Afzal</i>
16:35 – 17:20	Prayer and Tea		
17:20 – 18:00 (Main Auditorium)	Invited Talk, Title: Towards Passengers Safety and Accident Prediction : The AI Perspective Professor Dr Zahid Halim, Department of Computer Science, GIKI		
18:00 – 19:00	Tutorial - Panel members Dr Sohail Khan , Senior Faculty, Sino-Pak Center for Artificial Intelligence, Mr. Muhammad Hammad , Director Cloud Platform and Technology – Oracle, Professor Dr Yasir Ayaz , Founding Head of Department of Robotics and AI at NUST, Mrs. Komal Yousaf , Senior Businesses Consultant, IBM		
19:00 – 20:00	Research Poster Visits		
20:00	Dinner		
End Day 1			

Day 2: Saturday, October 22, 2022

9:00 – 9:40 (Main Auditorium)	Invited Talk, Title: Data Analytics from Business Perspective Mrs Komal Yousaf, Senior Businesses Consultant, IBM		
	Session 7 (Main Auditorium, Block A) Chair: Dr M. Asif Razzaq (Fatima Jinnah Women University) Co-chair: Dr Hassan Mujtaba (NUCES)	Session 8 (MEDC, Room 117, Block A) Chair: Dr Fiaz Ahmad (Air University) Co-chair: Dr Niaz Ahmad (NUCES)	Session 9 (Conference Hall, Room. 118, Block A) Chair: Dr Sheraz Anjum (COMSATS) Co-chair: Dr Shahzad Saleem (NUCES)
9:40 – 10:05	Class Incremental Learning for Visual Task using Knowledge Distillation <i>Usman Tahir, Amanullah Yasin and Ahmad Jalal</i>	EPP-LFU: An Efficient Producer Popularity-based LFU Policy for the Applications of Named-Data Networks <i>Muhammad Burhan, Ahmad Arsalan and Rana Asif Rehman</i>	A Comparative Study of Various Optimization Techniques to Size a Hybrid Renewable Energy System <i>Rabia Fazal Dad and Shahzad Saleem</i>
10:05 – 10:30	Real-Time Detection of Knives and Firearms using Deep Learning <i>Abdul Rehman and Labiba Fahad</i>	Energy Efficiency Issues in Android Application: A Literature Review <i>Obaid Ullah, Muhammad Hanan and Maryam Abdul Ghafoor</i>	Hybrid model for cloud data security using ECC-DES <i>Qummar-Un Nissa and Munam Ali Shah</i>
10:30 – 10:55	A Machine Learning based Approach to Identify User Interests from Social Data <i>Rida Tahir and M. Asif Naeem</i>	Vehicle Detection and Tracking from UAV Imagery via Cascade Classifier <i>Shuja Ali, Muhammad Hanzla and Ahmad Jalal</i>	A Fuzzy Approach to Trust Management in Fog Computing <i>Masooma Nabi and Monum Ali Shah</i>
10:55 – 11:20	Morning Tea		
11:20 – 12:00 (Main Auditorium)	Invited Talk, Title Portable Radar Systems for Life Activity Sensing, Anomaly Detection, and Human Tracking Professor Dr Changzhi Li, Texas Tech University		
	Session 10 (Main Auditorium, Block A) Chair: Dr Aman Ullah Yasin (Air University) Co-chair: Dr Kifayat Ullah (NUCES)	Session 11 (MEDC, Room. 117, Block A) Chair: Dr Asim Waris (NUST) Co-chair: Dr Omer Beg (NUCES)	Session 12 (Conference Hall, Room. 118, Block A) Chair: Dr Shibli Nisar (NUST) Co-chair: Dr Muhammad Asim (NUCES)
12:00 – 12:25	Enhancing NDVI Calculation of Low Resolution Imagery using ESRGANs <i>Muhammad Mahad Khaliq and Rafia Mumtaz</i>	Constructiveness-Based Product Review Scoring Using Machine Learning <i>Muhammad Nauman Asif and Muhammad Arshad Islam</i>	A Review of DDoS-Attack Detection and Prevention Mechanisms in Clouds <i>Muhammad Tehaam, Salman Ahmad, Hassan Shahid, Muhammad Suleman Saboor, Ayesha Aziz and Kashif Munir</i>

12:25 – 12:50	Saraiki Language Word Prediction And Spell Correction <i>Muhammad Farjad Ali Raza and Asif Naeem</i>	A Systematic Review on Fully Automated Online Exam Proctoring Approaches <i>Taskeen Fatima, Farooque Azam and Abdul Wahab Muzaffar</i>	A Robust Architecture for Aggregation of Heterogeneous Data for Threat Intelligence Platforms <i>Yasmeen Afzal, Muhammad Asim and Kifayat Ullah Khan</i>
12: 50 – 14:20	Prayer and Lunch		
	Session 13 (MEDC, Room.117, Block A) Chair: Dr. Saud Altaf (Arid Agriculture University) Co-chair: Dr Shujaat (NUCES)	Session 14 (Conference Hall, Room. 117, Block A) Chair: Dr Shah Nazir (University of Sawabi) Co-chair: Dr Muhammad Aleem (NUCES)	Session 15(Conference Hall, Room. 118, Block A) Chair: Dr. Momina Moetesum (Bahria University) Co-chair: Dr Arshad Islam (NUCES)
14:20 – 14:45	Multi-Organ Plant Classification Using Deep Learning <i>Asfand Yar Ali and Dr Labiba Fahad</i>	Evaluating the Impact of Gamified Quranic Learning Mobile Apps for Children <i>Noreen Jamil and Mahnoor Aftab</i>	Evaluation of Packet Concatenation Mechanisms for Low Power Devices in Industrial Internet of Things <i>Shama Siddiqui and Anwar Ahmed Khan</i>
14:45 – 15:10	Subject Wise Motor Imagery Classification from EEG Data Using Neural Networks <i>Afaq Ahmad Khan, Ali Hassan and Muhammad Talha Jahangir</i>	Moderating Effect of Entrepreneurial Orientation on Attitude Towards Intent to Start a New Venture <i>Chaudry Bilal Ahmad Khan</i>	Lexical Normalization of Roman Urdu <i>Mamoona Tasadduq</i>
15:10 – 15:40	Prayer and Tea		
Closing Ceremony (Main Auditorium)			
15:40 – 16:10	Prize Distribution Ceremony Presentation of Shields		
16:10 – 16:30	Concluding remarks		