4th INTERNATIONAL CONFERENCE
On innovations in Computer Science
November 13-14, 2024

NED University of Engineering & Technology, Karachi
Conference Programme

Day-1 : Wednesday , 13ᵗʰ Novemeber 2024			
Inaugural Session			
08:30 – 12:30	Venue : Main Auditorium	8:30 - 9:30	Registration
		9:30 - 9:35	Recitation
		9:35 - 9:40	National Anthem
		9:40 - 9:45	Welcome address by Conference Vice Patron
		9:45 - 10:30	**Keynote Speech : Computing with Quantum Entanglement** **Prof. Dr. Irfan Siddiqi** Director, Quantum Nanoelectronics Laboratory, University of California, Berkley
		10:30 - 11:15	**Keynote Speech : Measuring the Unmeasurable: The Power of Quantum Metrology** **Prof. Dr. Marco Genovese** Research Director, Quantum Optics Research Sector of INRIM, Italy
		11:15 - 11:30	Address by Chair IEEE Karachi Section
		11:30 - 11:40	Address by University Leadership
		11:40 - 11:50	Chief Guest Address by **Prof. Dr. Manzoor Ikram** Director, National Institute of Lasers and Optronics, Islamabad
		11:50 – 12:00	Address by Sponsors
		12:00 – 12:10	Presentation of Souvenirs
		12:10 - 12:15	Vote of Thanks by Conference Chair
		12:15 - 12:30	Photo Session
12:15 - 14:30	**Prayers/Lunch Break**		
14:30 – 16:20	Venue : Ashraf Habibullah AV Hall	**Technical Paper Session-I** **Session Chair : Dr. Najmi Ghani Haider, Session Co-Chair : Dr. Abdul Karim Kazi**	
		14:30 - 14:50	**Keynote Speech: Future of Cryptocurrency in Pakistan** **Dr. Mubashir Rehmani** **Department of Computer Science, Munster Technological University, Ireland**
		14:50 - 15:10	*Development and implementation of AI-enabled, remote vitals monitoring system using LoRaWAN* Muhammad Imran Aslam, Sundus Ali, Hamza Kaleem Shah, Samima Siddiq, Eisha Shoukat and Yahya Ahmed Khan
		15:10 - 15:30	*Disaster Resilient Cellular Network: Challenges and Requirements* Sunya Suhail Farooqi and Dr. Bilal Mohammad Khan
		15:30 - 15:50	*SmogMaster: LIDAR-Enhanced Driving Assistance for Beyond Visibility in Dense Fog* Falak Saleem, Muhammad Huzaifa and Duaa Iqbal
		15:50 - 16:10	*Optimizing Distributed Denial of Service (DDoS) Attack Detection Techniques on Software Defined Network (SDN) using Feature Selection* Inamul Haq, Salman Khan, Nazeeruddin Mohammad and Ali Zaman
		16:10 – 16:20	**Presentation of Souvenirs**
Day-2 : Thursday, 14ᵗʰ November 2024			
08:40 - 09:30	Venue : STEM Center	**Technical Paper Session-II** **Session Chair : Prof. Dr. Marco Genovese, Session Co-Chair : Prof. Dr. Manzoor Ikram**	
		08:40 - 08:55	*CONSTRUCTION OF A QUANTUM RANDOM NUMBER GENERATOR* Kashish Karera, Areej Khan, Humanyou Tariq, Mantasha Nadeem, Roohi Zafar, Muhammad Kamran and Muhammad Mubashir Khan
		08:55 - 09:10	*Towards Robust Quantum Communication: A Taxonomy of Vulnerabilities and Attacks over a decade in Quantum Key Distribution* Ehtesham Khan, Muhammad Mubashir Khan, Muhammad Kamran and Tahir Malik
		09:10 - 09:25	*Free Space Optical Communication Using Principles Of Quantum Mechanics* Tooba Angabeen, Fatima Asghar, Roohi Zafar, Tahir Malik, Muhammad Mubashir Khan and Muhammad Kamran
		09:25 - 09:30	*Presentation of Souvenirs*
09:40 – 12:30	Venue: Ashraf Habibullah AV Hall	**Technical Paper Session-III** **Session Chair : Prof. Dr. Rizwan Ahmed Khan, Session Co-Chair : Prof. Dr. Najeed Ahmed Khan**	
		09:40 - 10:00	**Keynote Speech : Generative AI and Education** **Prof. Rafael Ferreira Mello** Federal Rural University of Pernambuco, UFRPE, Brazil

		10:00 - 10:20	***Urban Pluvial Flood Prediction Using Machine Learning Models*** Waseemullah Nazir, Tahir Hassan, Sajid Majeed and Muhammad Qasim Memon
		10:20 - 10:40	***Early Stage Breast Cancer Prediction Using Image Processing*** Shehnila Zardari, Nisar Ahmed Shar, Maria Munawwar, Ume-Hani Usman, Mahrukh Khan and Zeba Shabbir
		10:40 - 11:00	***Real-Time Detection of Cyber Threats via Dark Web Traffic Analysis Using Machine Learning and Deep Learning*** Aveen Faheem and Muhammad Mubashir Khan
		11:00 - 11:20	***SafeCampus: Leveraging AI for Advanced Surveillance and Security Enhancement*** Hamna Farooq and Najeed Ahmed Khaned
		11:20 - 11:40	***Recommender System For Educational and Professional Growth*** Summiya Iqbal Jangda and Muhammad Khaliq-Ur-Rahman Raazi Syed
		11:40 - 12:00	***Examiti	Revolutionizing Exam Paper Creation and Quality Evaluation using Artificial Intelligence*** Muhammad Jawwad, Syed Muhammad Zaryab, Abdul Rafay Chohan, Muhammad Rohan Ahmed and Muhammad Mubashir Khan
		12:00 - 12:20	***SonicVision: Navigating Object Counting Frontiers with Ultrasonic Economy*** Mohsin Khalil, Muhammad Saad Ikram and Adnan Shah
		12:20 - 12:30	**Presentation of Souvenirs**
09:40 – 12:30	**Venue: Mechanical AV Hall**		**Technical Paper Session-IV** **Session Chair : Prof.** Dr. Jawwad Ahmed Shamsi, **Session Co-Chair : Prof.** Dr. Shariq Mahmood Khan
		09:40 - 10:00	**Session Talk : AI-Based Context-Aware Event Detection of Critical Events** **Prof. Dr. Jawwad Ahmed Shamsi** National University of Computer and Emerging Sciences, FAST, Karachi
		10:00 - 10:20	***Unified Butterfly for NTT in Post-Quantum Cryptography Algorithm CRYSTALs-Kyber*** Ayesha Waris, Arshad Aziz and Bilal Muhammad Khan
		10:20 - 10:40	***Blockchain Sharding Model to Increase The Efficiency of Waste Management Processes Based on Blockchain Technology*** Inayatulloh Inayatulloh, Dewan Pelawi, Witarsjah Witarsjah, Novan Zulkarnain, Ernawaty Ernawaty and Anzaludin Samsinga Perbangsa
		10:40 - 11:00	***A Blockchain based E-Commerce Platform with Supply Chain Management and Authenticated Resale*** Akhlaq Ahmed Shaikh, Samia Masood Awan, Muhammad Fahad and Mahnoor Zahid
		11:00 - 11:20	***SSS: Investigating Secure Scalable Solutions for Blockchain (An SLA Scenario)*** Kashif Khan, Shariq Khan, Zuhair Mohsin and Danish Zaki
		11:20 - 12:40	***CyberCure - Malware Defense System*** Sardar Zohair Shahid, Muhammad Anas Bangash, Muhammad Rayyan Hussain and Saadia Arshad
		11:40 - 12:00	***Implementation of Differential Privacy for Enhancing Data Privacy in Wearable Fitness Trackers*** Hammad Shaikh and Shariq Mahmood Khan
		12:00 - 12:20	***Design and Analysis of Quantum Safe Virtual Private Network*** Muhammad Saad, Muhammad Mubashir Khan and Waseem Ahmed
		12:00 - 12:10	**Presentation of Souvenirs**
12:30 – 14:30			**Prayers/ Lunch Break**
			Closing Session
14:30 – 16:15	**Venue: Main Auditorium**	**14:30 – 14:35**	Recitation
		14:35 – 14:40	National Anthem
		14:40 – 15:25	**Keynote Speech : QuantumComputer on Chip** **Prof. Dr. Manzoor Ikram** Director, National Institute of Lasers and Optronics, Islamabad
		15:25 - 15:30	Closing Remarks by Conference Chair
		15:30 - 15:40	Guest of Honor Speech by **Prof. Dr. Marco Genovese** Research Director, Quantum Optics Research Sector of INRIM, Italy
		15:40 - 15:50	Speech by University Leadership
		15:50 – 16:00	Presentation of Souvenirs
		16:00 – 16:05	Vote of Thanks by Conference Secretary
		16:05 - 16:15	Photo Session