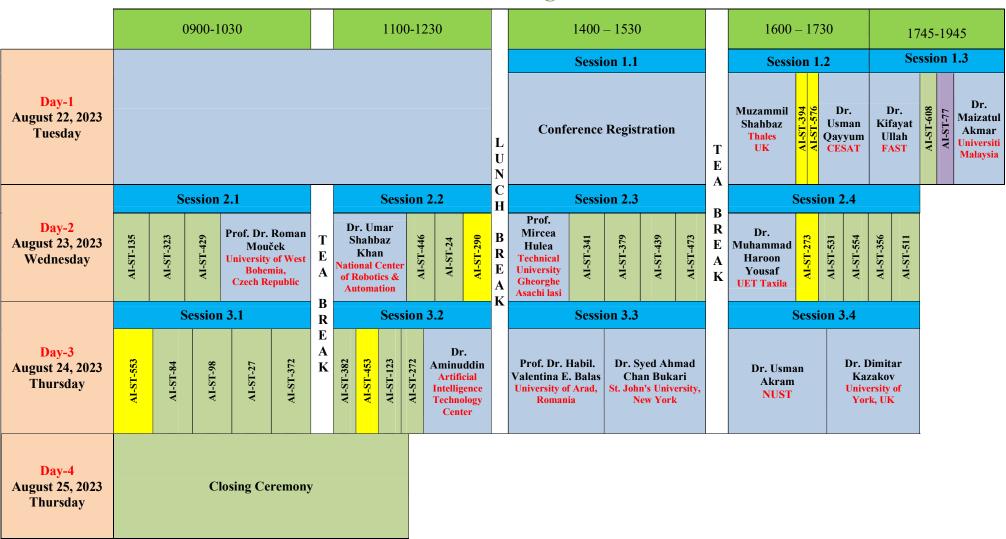
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Day 1: August 22, 2023

16:00 – 19:15 Opening Message Dr. Usman Qayyum		20 th IBCAST 2023: ARTIFICIAL INTELLIGENCE AND SOFTWARE TECHNOLOGIES	
Session 1.1 Session Chair	16:00 – 16:45	Invited Talk (Testing the Untestables - Challenges of Mission Critical Software Systems)	Muzammil Shahbaz Thales, UK
	16:45 – 17:00	AI-ST-394: Efficient Multipliers for CNN with Optimized Compression Techniques	Muhammad Usman CESAT
	17:00 – 17:15	AI-ST-576: SPVD: A Stroke Patient Motor Movements Video Dataset for AI Augmented Rehabilitation	Tipu Sherazi CESAT
	17:15 – 17:40	Invited Talk(Journey of Artificial Intelligence Applications to Production- MLOPS)	Dr. Usman Qayyum CESAT
Break			
Session 1.2 Session Chair	17:45 – 18:30	Invited Talk (Data Engineering using Open-Source Big Data Processing Platforms)	Dr. Kifayat Ullah FAST
	18:30 - 18:45	AI-ST-608: Intelligent Monitoring for Elderly Well-being: Deep Learning-Based Activity Recognition for Fall Detection	Areeb Adnan Khan Habib University
	18:45 - 19:00	AI-ST-77: Centrifugal pump fault detection with hybrid feature pool and deep learning	Wasim Zaman South Korea
	19:00 - 19:45	Invited Talk (Generative AI and Recommendation Systems)	Dr. Maizatul Akmar Binti Ismail Universiti Malaya, Malaysia

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Day 2: August 23, 2023

Day 2: Aug	gust 23, 2023		
	09:00-09:15	AI-ST-135: Smart Shopping Cart for Self-Service Checkout Based on IoT Technologies	Muhammad Imran NUST
1 2.1 Chair	09:15-09:30	AI-ST-323: A Deep Learning Approach to Pakistani Sign Language Recognition	Muhammad Shaheer Mirza Salim Habib University
Session 2.1 Session Chair	09:30-09:45	AI-ST-429: Sentiment Analysis of Movie Reviews using Improved Word 2 Vec and CNN	Muhammad Imran Khan Riphah Internation University
Ses	09:45 -10:30	Invited Talk (Brain-Computer Interface systems)	Prof. Dr. Roman Mouček University of West Bohemia, Czech Republic
		Break	
Session 2.2 Session Chair	11:00 – 11:45	Invited Talk (Indigenous R&D for Robotics & Automation in Pakistan)	Dr. Umar Shahbaz Khan National Center of Robotics & Automation
Session 2.2 Session Cha	11:45 – 12:00	AI-ST-446: Self-Aware AI-Enabled Medical System	Ali Raza FAST-NUCES
Sess	12:00-12:15	AI-ST-24: A Novel Model-Driven Framework for Performance Testing of Service-Oriented Architecture	Ibrahim Khalil NUST
D	12:15-12:30	AI-ST-290: Deep Learning-Based Framework for Automated Vulnerability Detection in Android Applications	Rijha Safdar CESAT
		Break	
	14:00 – 14:30	Invited Talk (Motion Tolerant Electro Optical Spiking Neural Networks)	Prof. Mircea Hulea Technical University Gheorghe Asachi lasi
1 2.3	14:30 – 14:45	AI-ST-341: Recognition of Urdu Handwritten Words Using Deep Learning Techniques	Toqeer Ahmed AITec NCP
Session 2.3 Session Chair	14:45 – 15:00	AI-ST-379: Software Estimation Process Improvement using Segmentation	Yaseen Khan MAJU
S S	15:00 – 15:15	AI-ST-439: Implementation of Space Exploration Algorithm duly Integrated with ROS: A Practical Framework	Muneeb Hassan NUST
	15:15 – 15:30	AI-ST-473: Exploring the Effectiveness of Joint Bi-LSTM-GNN vs ChatGPT-LLM in Source Code Retrieval	Nazia Bibi NUST
		Break	
2.4 on r	16:00 – 16:45	Invited Talk (Edge-AI Enabled Robot Swarms)	Dr. Muhammad Haroon Yousaf UET Taxila
Session 2.4 Session Chair		AI-ST-273: Robust Multi-Object Threat Detection in X-ray Baggage Scanner	Danyail Mateen CESAT
See	17:00 – 17:15	AI-ST-531: A Short-Term Load Forecasting by Using Hybrid Model	Sabiha Rani MUST

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	17.30 17.45	AI-ST-554: CB-UNet: A Channel boosted UNet architecture for lymphocyte detection in	Linta Kamran
	17:30-17:45	AI-ST-554: CB-UNet: A Channel boosted UNet architecture for lymphocyte detection in histopathological images	PIEAS
		Al-ST-356: Foliar Diseases Identification in Apple Tree using Deep Learning	Saira Farooq
			FAST-NUCES
	18:00-18:15	AI-ST-511: Modulation Recognition of the OFDM Signals in the UAV-RIS Based AI-enabled	Muhammad Farrukh Shahid Syed
	18:00-18:15	6G Network for Smart Agriculture	FAST-NUCES

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Day 3: A	August 24, 2023		
Session 3.1 Session Chair	09:00-09:15	AI-ST-553: Supervised Water Body Classification from Sentinel-2 Imagery	Rafia Malik CESAT
	09:15-09:30	AI-ST-84: Transition Maneuver Optimization of a Hybrid UAV Using Deep Reinforcement Learning	Mishma Akhtar NUST
	09:35-09:50	AI-ST-98: Neural Machine Translation System for Pakistani Languages	Shehzadi Ambreen FJWU
	09:55 - 10:10	Al-ST-27: Deep Word Embedding and Language Model based Sentimental Analysis of COVID-19 Tweets	Sobia Qaiser NUST
	10:15 – 10:30	Al-ST-372: An Al-Based Classroom Monitoring System Leveraging Computer Vision and Machine Learning	Waqar Ahmad GIKI
		Break	
	11:00 – 11:15	Al-ST-382: Semantic Similarity of the Holy Quran Translations with Sentence-BERT	Tania Afzal FJWU
Session 3.2 Session Chair	11:15 – 11:30	Al-ST-453: Software Reliability Analysis Using Prediction Models	Ali Imran Haidry CESAT
sion ion C	11:30-11:45	Al-ST-123: Decoupling Data and Linguistic Knowledge for Spontaneous Tabular Q/A	Farhan Dhanani FAST-NUCES
Sessi	11:45-12:00	AI-ST-272: Deep Learning-based 3D Reconstructed Objects via Generative Models and Octree Structure	Hamid Ashfaq Air University
	12:00-12:30	Invited Talk (Artificial Intelligence Technology Center)	Dr. Aminuddin AiTech
		Break	
Session 3.3 Session Chair	14:00 – 14:45	Invited Talk (Adaptive Fuzzy Control)	Prof. Dr. Habil. Valentina E. Balas University of Arad, Romania
	14:45 – 15:30	Invited Talk (Artificial intelligence for Healthcare)	Dr. Syed Ahmad Chan Bukari St. John's University, New York
		Break	
Session 3.4 Session Chair	16:00-16:45	Invited Talk (DermaVision: An Intelligent Dual Contrastive Learning and Transformers based Framework for Analysis of Unstained Skin Tissue Samples)	Dr. Usman Akram NUST
	16:45-17:30	Invited Talk (DATA ANALYTICS & AI IS NOT A SILVER BULLET)	Dr. Dimitar Kazakov University of York, UK

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Day 4: August 25, 2023

	10:00-11:30	Closing Ceremony	
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