20-23 August 2024

Technical Program

First Announcement

			0930-	1100				1120	-1250		140	00 – 1	1530			160	00 – 17	730			1745-1	1945	
										Se	ssion	1.1			Session 1.2				Session 1.3				
Day-1 August 20, 2024 Tuesday											Opening Remarks			T E A B R E	Dr. Yasa Ayaz Chairma NCAI, Pakistan	AI-ST-80	AI-ST-231	AI-ST-258	Prof. Jie Yang Shanghai Jiao Tong University, China		AI-ST-157	AI-ST-372	
	Session 2.1						\$	Sessi	on 2.2	Se	ssion	ion 2.3			Session 2.4								
Day-2 August 21, 2024 Wednesday	AI-ST-190	AI-ST-248	AI-ST-336	Dr. Shoab Ahmad Khan Chancellor Sir Syed CASE Institute of Technology, Pakistan	T E A	Uni	Pr. Miro Hulea Gheorgl Asachi Technic iversity Romani	he i al Lasi,	AI-ST-121 AI-ST-153	B R E A	Panel Discussion (Recent Trends : Frontiers in AI : Their Impact	on and and)	AI-ST-112 AI-ST-264	AI-ST-283		AI-ST-193	AI-ST-263	AI-ST-272		AI-ST-423	AI-ST-366		AI-ST-453
	Session 3.1				B R		\$	Sessi	on 3.2	ľ	,	Sessio	on 3.3										
Day-3 August 22, 2024 Thursday	AI-ST-107	AI-ST-292	AI-ST-130	Dr. Zohaib Iqbal Founder Quest, Pakistan	E A K	AI-ST-377	AI-ST-208	AI-ST-392	Dr. Vlad Muresan Technical University of Cluj-Napoca, Romania		Dr. Mircea Hulea Gheorghe Asachi Technical University Lasi, Romania	A Univ Tv	Faizan hmed versity of wente, herland	AI-ST-176	AI-ST-424								
Day-4 August 23, 2024 Friday					Clo	sing	; Ceren	nony		•													

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Day 1: August 20, 2024

Duy III	ugust 20, 2027							
16:00 – 19:15 Opening Message Dr. Usman Qayyum		21st IBCAST 2024: ARTIFICIAL INTELLIGENCE AND SOFTWARE TECHNOLOGIES						
_ i ä	16:00 – 16:45	Invited Talk (AI on the Leading Edge)	Dr. Yasar Ayaz Chairman NCAI, Pakistan					
Session 1.1 Session Chair	16:45 – 17:00	AI-ST-80: Classification and Segmentation of Gastroenterology Images using Saliency Mapping in Convolutional Neural Network	Yusra Khan NUST, Islamabad					
		AI-ST-231: ServeNet-GPT-Fusion: A Fusion Language Model For Web Services Classification	Muhammad Ali Khan Beihang University, China					
	17:15 – 17:30	AI-ST-258: Beyond Boundaries: A Novel Ensemble Approach for Breast Cancer Detection in Ultrasound Imaging Using Deep Learning	Ateeq Ur Rehman Butt NTU, Faisalabad					
Break								
n 1.2 Chair	17:45 – 18:30		Prof. Jie Yang Shanghai Jiao Tong University, China					
Session 1	18:30 - 18:45	AI-ST-157; Exploring the Potential of Machine Learning-Assisted Spaceborne GNSS-R Measurements for Ocean Eddy Detection	Jin Xing Beihang University, China					
S S	18:45 - 19:00	AI-ST-372: Adaptive Power Control Based on Neural Network Design and Implementation for the Hybrid Shipboard Microgrids.	Farooq Alam NUST, Islamabad					

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	09:30-09:45	Al-ST-190: A Machine Learning-Based Framework for Predicting E-commerce Product Ratings	Muneeb Iqbal NCP, Islamabad							
Session 2.1 Session Chair	09:45-10:00	AI-ST-248: Enhanced Pneumothorax Detection in Chest Radiographs Via a Deep Learning Framework DENSE Network Fusion with Yolov8	Imtiaz ul haq khan Millenium Universal College							
	10:00-10:15	Al-ST-336: The Art of Deception: Adversarial Network Strategies in Thwarting Airborne Object Detection	Mohsin Khalil NUST, Islamabad							
	10:15 -11:00	Dr. Shoab Ahmad Khan Chancellor Sir Syed CASE Institute of Technology, Pakistan								
Break										
Session 2.2 Session Chair	11:20 – 12:05	Invited Talk (Hardware and Software Reliability in redundant systems)	Dr. Mircea Hulea Gheorghe Asachi Technical University Lasi, Romania							
ssion (12:05 – 12:20	AI-ST-121: Autonomous Robotic Arm Grasping Objects with Reinforcement Learning	Azhar Abbas MUET, Jamshoro							
Ses	12:20-12:35	AI-ST-153: Multi-Core Architecture	Muhammad Shehryar Bahria University, Islamabad							
		Break								
£	14:00 – 14:45	Panel Discussion (Recent Trends and Frontiers in AI and Their Impact)								
n 2.3 Chain	14:45 – 15:00	AI-ST-112: Kernel Fashion Context Recommender System (KFCR): A Kernel Mapping Fashion Recommender System Algorithm using Contextual Information	Sadia Khalid NUST, Islamabad							
Session 2.3 Session Chair		Al-ST-264: Deep Learning for automated multi-scale functional field boundaries extraction using multi-date Sentinel-2 and PlanetScope imagery: Case Study of Netherlands and Pakistan	Saba Zahid IST, Islamabad							
	15:15 – 15:30	AI-ST-283: MASA: Multi Agent Situational Awareness for Visually Impaired	Salman Sadiq NUST, Islamabad							
		Break								
	16:00 – 16:15	Al-ST-193: The Study Of Characteristics Of Self Organizing Teams In Agile	Javeria Sadiq NUCES FAST, Lahore							
air	16:15 – 16:30	AI-ST-263: A Model Driven Framework Enabling the Development of Standardized Text-free User Interface for Smartphones	Uzair Rasheed NUST, Islamabad							
ion 2 on Ch	16:30 – 16:45	AI-ST-272: An Intelligent Digital System for Foot Weight Distribution	Uman Ahmad Center for AI & Big Data							
Session 2.4 Session Chair		AI-ST-423: Model-Driven Engineering for Modeling and Simulating Satellite Power Systems: A Case Study	Daijin Hu Beihang University, China							
		AI-ST-366: AI framework for Urban and Natural Scene Classification using Multiscale Attention for SAR/Multispectral Big Data	Amjad Nawaz Beihang University, China							
	17:30-17:45	AI-ST-453: AHP-RNN based Hybrid Model with Embedded Software Solution for Smart Climate Control in IoT Automation	Ali Hassan Jamal CESAT							

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Day 3: August 22, 2024

Day J. I	August 22, 2024		
	09:30-09:45	AI-ST-107: Exploring the Impact of Dataset Content on Self Supervised Pretext Rotation Learning: A Comparative Analysis using MobileNet	Amina Asif Air University, Islamabad
Session 3.1 Session Chair	09:45-10:00	AI-ST-292: AI Driven Prognosis in Pediatric Bone Marrow Transplantation Survival	Wafiya Sohail Sir Syed Case university, Islamabad
	10:00-10:15	AI-ST-130: Delineation of the Atrial Chamber from the Cardiac Pool	Arooj Arif NUST, Islamabad
	10:15 – 11:00	Invited Talk (AI for productization)	Dr. Zohaib Iqbal Founder Quest, Pakistan
		Break	
	11:20 – 11:35	AI-ST-377: Efficient Path Planning and Collision Avoidance for Autonomous Robot Navigation	Naeem ul Islam Yuan ze university, Taiwan
2. air	11:35 – 11:50	Al-ST-208: Forecasting Particulate Matter (PM 2.5) Concentration in Air with Double Attention GRU	Saira Mudasser PIEAS, Islamabad
ion 3	11:50 – 12:05	AI-ST-392: Real-Time VoIP Classification in Encrypted Traffic using Deep Learning	Fahad Naeem NUST, Islamabad
Session 3.2 Session Chair	12:05–12:50	Invited Talk (AI in Healthcare for Predicting the Pandemic Spread)	Dr. Vlad Muresan Technical University of Cluj- Napoca, Romania
		Break	
	14:00 – 14:45	Invited Talk (Learning in Spiking Neural Networks and their applications in robotics)	Dr. Mircea Hulea Gheorghe Asachi Technical University Lasi, Romania
Session 3.3 Session Chair	14:45-15:30	Invited Talk (Explainable AI)	Dr. Faizan Ahmed University of Twente, Netherland
	15:30-15:45	AI-ST-176: Automated Segmentation of the Ocular Orbit from Magnetic Resonance Images	Amad Qureshi George Mason University, USA
	15:45-16:00	AI-ST-424: Online Fault Diagnosis of the Water Circulation System of Altitude Simulation Test for LREs	Yong Xu Beihang University, China

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Day 4: August 23, 2024

	10:00-Onwards	Closing Remarks
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