

Program Highlights (In Person)				
Day 1: 23 October, 2025 (Thursday)				
8:00 AM – 10:30 AM	Registration & Kit Distribution, Central Lab (2 nd Floor, Ibn Sina Building, Islamic University)			
9:00 AM – 10:50 AM	Parallel Technical Session A			
	D1A1 (ICT 101) Paper ID: 24, 28, 57, 108, 133, 140, 149	D1A2 (ICT 125) Paper ID: 142, 203, 360, 383, 459, 514, 883, 151	D1A3 (ICT 126) Paper ID: 477, 560, 732 739, 832, 881, 273, 287	D1A4 (ICT127) Paper ID: 153, 218, 227, 317, 174, 186, 259, 395
10:50 AM – 11:10 AM	Refreshment			
11:15 AM – 12:00 PM	Keynote Session–I (Venue: Bir Shrestho Hamidur Rahman Auditorium-BSHRA)			
12:00 PM – 12:45 PM	Inauguration Ceremony (Bir Shrestho Hamidur Rahman Auditorium-BSHRA)			
12:45 PM – 1:15 PM	Keynote Session–II (Online) Zoom Meeting ID: 92128381020 Link: https://bdren.zoom.us/s/92128381020			
1:15 PM – 02:45 PM	Prayer & Lunch Break			
2:45 PM – 4:15 PM	Parallel Technical Session B			
	D1B1 (ICT 101) Paper ID: 697, 313, 320, 353 441, 442, 462, 467,733	D1B2 (ICT 125) Paper ID: 345, 372, 409, 557 824, 499, 558, 591, 625, 735	D1B3 (ICT 126) Paper ID: 364, 396, 590, 855 870, 522, 718, 798,782	
4:15 PM – 4:30 PM	Refreshment			
4:30 PM – 5:15 PM	Keynote Session–III (Online) Zoom Meeting ID: 92128381020 Link: https://bdren.zoom.us/s/92128381020			
End of Day 1				

Day 2: 24 October, 2025 (Friday)			
09:00 AM – 10:30 AM	Parallel Technical Session A		
	D2A1 (ICT 101) Paper ID: 469, 507, 518 523, 528, 554, 421	D2A2 (ICT 125) Paper ID: 563, 628, 643, 726, 741, 743, 745	D2A3 (ICT 126) Paper ID: 642, 652, 678, 681, 688
10:30 AM – 10:45 AM	Refreshment		
10:45 AM – 11:45 AM	Parallel Technical Session B		
	D2B1 (ICT 125) Paper ID: 524, 553, 572, 620, 634	D2B2 (ICT 126) Paper ID: 134, 187, 283, 753, 820, 821, 872	
11:45 AM – 12:30 PM	Keynote Session–IV(Online) Zoom Meeting ID: 92128381020 Link: https://bdren.zoom.us/j/92128381020		
12:30 PM – 3:00 PM	Prayer & Lunch Break		
3:00 PM – 3:30 PM	IEEE CS BDC Student Activity		
3:30 PM – 4.15 PM	Travel to Desha TARC, Kushtia		
4.15 PM – 4:45 PM	Invited Talk (Desha TARC)		
4:45 PM – 5:00 PM	Tea Break (Desha TARC)		
5:00 PM – 5:45 PM	Keynote Session–V(Desha TARC)		
5:45PM – 6;30PM	Prayer Break		
6:30 PM – 8:30 PM	Closing Ceremony & Conference Banquet (Desha Tarc, DESHA Tower Upozila more, Kushtia)		
End of Day 2			

Day 1: 23 October, 2025 (Thursday)

D1A1: 23 October, 2025		
Session Title: Artificial Intelligence and Machine Learning		
9:00 AM – 10:50 AM		Venue: ICT 101
Chair: Dr. Md. Abdul Awal, IUBAT		
SL	Paper ID	Title
1	24	Jailbreaking Large Language Models: A Red Teaming Perspective
2	28	Explainable Machine Learning Framework for Detecting Lumpy Skin Disease with Environmental and Climate Factors
3	57	Enhanced Malaria Detection Using PVT-XGBoost Optimized with Cuckoo Search algorithm
4	108	FSG: A Conditional Generative Adversarial Network for Censoring-Aware Survival Prediction in Allogeneic Hematopoietic Cell Transplantation
5	133	
6	140	Neuro-Causal Multimodal Transformer for Interpretable Arrhythmia Subtyping in Congenital and Pediatric ECG with Intracardiac Fusion
7	149	Machine Learning-Based Prediction of Nightmares in Children: A Pediatric Psychological Integration

D1A2: 23 October, 2025		
Session Title: Internet of Things (IoT) and Data Analytics		
9:00 AM – 10:50 AM		Venue: ICT 125
Chair: Dr. AKM Masum, CSE, SEU		
SL	Paper ID	Title
1	142	SmartParkX: A Real-Time IoT-Based Smart Parking System with RFID Authentication, Infrared Slot Monitoring, and Web-Controlled Gate Automation
2	151	A Comparative Analysis of Hybrid Deep Learning Architectures for Detecting Schizophrenia from EEG Signals
3	203	An Efficient GPS-Based Path Planning Method for Autonomous Tractor Navigation
4	360	IoTBased Smart Healthcare Monitoring Systems: A Comprehensive Review of Technologies, Challenges, and Innovations
5	383	Exploring Fault Tolerant Hierarchical IoT Architecture with Cost-Aware Routing for Resilient Data Aggregation
6	459	Miniaturized Antenna Structure Supporting C and X Band Resonances for Integrated Wireless System
7	514	On-Device Product Recognition and Billing: A Deep Learning Framework for Low-Cost Embedded Retail Systems
8	883	Design and Development of an IoT-Based Poultry Integrated Aquaponics System: A Sustainable Solution

D1A3: 23 October, 2025 Session Title: Algorithms and Computation 9:00 AM – 10:50 AM Chair: Dr. Amran Hossain, CSE, DUET			Venue: ICT 126
SL	Paper ID	Title	
1	477	Exploring the Therapeutic Potential of Aloe vera extracted compounds Against NSCLC: A Molecular Docking and Dynamic Simulation Study	
2	560	KSiFoldNet: A K-Symplectic Integrated Transformer Network for RNA Structural Prediction with AdamW Optimization	
3	732	Proposing and Evaluating a new CAPTCHA Systems for Improving Usability and Accessibility	
4	739	An Interpretable and Privacy-Preserving Approach to CKD Prediction with Federated Learning and Blockchain	
5	832	Comparative Deep Learning and Explainable AI Approaches for Automated Detection of Arsenic Skin Lesions	
6	881	Design and Development of an IoT-based CCTV Monitoring System using Deep Learning	
7	273	Bridging Climates: Weather Forecasting Using OLS and ARIMA Models with a Multi-Country Dataset	
8	287	Combating Misinformation: A Comparative Evaluation of Zero-Shot Models for Fake News Detection	

D1A4: 23 October, 2025		
Session Title: Artificial Intelligence and Quantum Computing		
9:00 AM – 10:50 AM		Venue: ICT 127
Chair: Dr. AFM Sahab Uddin, CSE, JUST		
SL	Paper ID	Title
1	153	A Quantized and Lightweight Convolutional Neural Network for Multiclass Object Detection of Malaria Parasites in Blood Smear Images
2	218	Enhancing Potato Leaf Disease Classification Using a Modified CNN with XAI
3	227	A Hybrid Deep Learning Approach for Detecting Suspicious Activities in Video Surveillance
4	317	Brain Tumor Detection in MRI Images with YOLOv12
5	174	Dual Band Quad-port D-shaped Slot MIMO Antenna Array for K and Ka Bands Wireless Application
6	186	Simulation of E91 Quantum Key Distribution Protocol Using Qiskit
7	259	Analysis of Energy Efficiency of Smart Bandwidth Reduction and Redistribution Allocation Algorithm in TDM EPON
8	395	Design and Performance Optimization of a Compact Microstrip Patch antenna for C-Band Applications

D1B1: 23 October, 2025		
Session Title: Artificial Intelligence and Machine Learning		
2:45 PM – 4:15 PM		Venue: ICT 101
Chair: Dr. Rameswar Debnath, CSE, KU		
SL	Paper ID	Title
1	441	Improving Alzheimer’s Detection: Leveraging EfficientNet-B0 and Explainable AI for High-Accuracy Classification
2	442	A Stacking Ensemble Framework for Predicting Employee Turnover: Explainable AI with SHAP
3	462	XAI-Driven Comparative Framework for Anemia Diagnosis Using SHAP and LIME
4	467	Multilabel Aggressive Comments Detection from Social Media using Deep Learning Techniques
5	697	PharmaShield: Optimized Blockchain Framework for Pharma Supply
6	313	Forearm Orientation Invariant Hand Gesture Recognition using sEMG and Feature Driven Machine Learning
7	320	Performance and Interpretability in Diabetes Prediction: Optimized Ensemble Learning and Explainable AI
8	353	EcoClassNet: A Lightweight CNN for Real-Time E-Waste Device Classification
9	733	Intrusion Detection System Using Optimized Deep Machine Learning with Explainable AI

D1B2: 23 October, 2025 Session Title: Image and Signal Processing 2:45 PM – 4:15 PM Chair: Dr. Md. Habibur Rahman, CSE, IU Venue: ICT 125		
SL	Paper ID	Title
1	499	Design and Performance Analysis of a Graphene-Based Dome-Shaped MIMO Antenna for 6G Application
2	558	Design of a Quad-Band Tunable Metamaterial Absorber Integrating Resistor and Varactor for S-/C-/X-Band Applications
3	591	Design and Analysis of a CSRR-Based Triple-Band Patch Antenna for Terahertz 6G Applications
4	625	Design of an Ultra-Wideband Nickel based Metamaterial Absorber for Enhanced Solar Energy Harvesting Applications
5	735	Enhancing Security in Radio Frequency Wireless Networks with Reconfigurable Intelligent Surface
6	345	LungXResViT: A Robust Hybrid DL Framework for Accurate Lung Cancer Classification with XAI
7	372	Enhanced Java Plum Leaf Disease classification Using ShuffleNetV2 and GSA-Tuned AdaBoost
8	409	A Custom Neural Network Approach for Leaf Disease Detection Using CNN Features
9	557	Clinically Interpretable Bone Fracture Detection Using EfficientNet-B0 and XAI: A Deep Learning Approach for Radiographic Image Analysis
10	824	Attention-Enhanced Deep Learning Approach for Spectrum Sensing in Cognitive Radio at Ultra-Low SNR

D1B3: 23 October, 2025		
Session Title: Communications and Quantum Computing -1		
2:45 PM – 4:15 PM		Venue: ICT 126
Chair: Dr. Mirza A. F. M. Rashidul Hasan, ICE, RU		
SL	Paper ID	Title
1	522	Optimizing Crop Recommendation with IoT and Machine Learning: A Smart Agriculture Framework 4.0
2	718	Autonomous Pole Climbing Robot for Real-Time Power Line Inspection and Fault Detection
3	798	A Solar-Powered IoT System for Real-Time Water Quality Monitoring Using LoRa and Machine Learning
4	364	Hate Speech Detection in the Sylheti Language A Machine Learning and Deep Learning Approach
5	396	Attention-Based Deep Learning for Scalable Speech Emotion Recognition with Synthetic Bone-Conducted Speech
6	590	Interpretable Fine-Grained Hate Speech Detection in Bangla CNN with LIME and Comparative Evaluation
7	855	Parameter-Efficient Fine-Tuning for Low-Resource Languages: A Comparative Study of LLMs for Bengali Hate Speech Detection
8	870	CNN–Transformer Architecture with XAI for Vision-Based UAV Detection in Security Applications
9	782	Effective Classification of Paddy Leaf Diseases: An Ensemble Technique with Transfer Learning Approach to Expand Agricultural Productivity

Day 2: 24 October, 2025 (Friday)

D2A1: 24 October, 2025		
Session Title: Artificial Intelligence and Machine Learning		
09:00 AM – 10:30 AM		Venue: ICT 101
1. Chair: Dr. Md. Zahid Hasan, CSE, Daffodil University		
SL	Paper ID	Title
1	469	An Explainable Multi-Class Brain Tumor Classifier Using EfficientNetV2 with Hybrid Attention Mechanisms
2	507	A Novel Hybrid Deep Learning Model for Alzheimer’s Disease Stage Classification Using MRI
3	518	Designing Abstractive Summarization Systems based on Transformer for Urdu
4	523	A Data Driven Assessment for Predicting Distillation Column Temperature under Malfunction Conditions Using Machine Learning
5	528	Histopathological Disease Identification with Interpretable Region-Based Attribution, Expert Scoring, and Quantitative Analysis
6	554	Integrating YOLOv10 and Dual-Head Inference for Automated Diabetic Retinopathy Diagnosis
7	421	IoT-Enabled Mobile Robot for Environmental Monitoring with Multi-Modal Communication

D2A2: 24 October, 2025		
Session Title: Image and Signal Processing (3)		
09:00 AM – 10:30 AM		Venue: ICT 125
Chair: Dr. Md. Kamrul Islam, CSE, JUST		
SL	Paper ID	Title
1	563	EEG Motor Execution Classification Using RG-CNN-LSTM: A Riemannian Geometry-Inspired Deep Learning Approach
2	628	DeepBNet: A Modified DL Model for More Accurate Classification of Bengali Compound Handwritten Characters
3	643	EEG-Based Biomarkers for Early Detection of First Episode Psychosis Using Riemannian Geometry and Support Vector Machines
4	726	Pneumonia Detection Using Deep Learning and Machine Learning Approaches from Chest X-Ray
5	741	A Novel Hybrid Deep Learning Model for Automated Brain Tumor Detection in MRI Scans
6	743	A Federated Learning Framework for Sustainable Boro Rice Yield Prediction Using Multi-Regional Agro-Climatic Data
7	745	Image Pre-processing for Deep Learning in Bone Fracture Classification: A Comparative Study

D2A3: 24 October, 2025		
Session Title: Artificial Intelligence and Machine Learning		
09:00 AM – 10:30 AM		Venue: ICT 126
Chair : Dr. Muhammad Aminur Rahaman, CSE, BUBT		
SL	Paper ID	Title
1	642	Machine Learning-Driven Early Warning System for Epidemic and Pandemic Outbreaks with Explainable AI
2	652	A Hybrid Deep Learning Framework Combining Fourier Denoising and Dynamic Model Weighting for GHI Prediction
3	678	CerviTrans-XAI: An Explainable Vision Transformer Ensemble for Accurate Cervical Cancer Classification
4	681	PneumoniaXAttnNet: An Attention-Driven Xception Framework for Accurate Pneumonia Classification with XAI
5	688	Enhancing DeepFake Classification Performance Using a CNN and XceptionNet-Based Pipeline

D2B1: 24 October, 2025 Session Title: Network and Security 10:45 AM – 11:45 AM Chair: Dr. Tangina Sultana, CSE, HSTU			Venue: ICT 125
SL	Paper ID	Title	
1	524	Efficient DDoS Attacks Detection using Optimized Feature Selection and Machine Learning	
2	553	Automating Malware Detection and Response via Real-Time Threat Feed Integration with Wazuh SIEM	
3	572	The Journey from 4G to 6G: A Systematic Investigation of Wireless Networks Focusing on 6G	
4	620	Intelligent Detection of Fileless Malware Using Autoencoder and Hyperdimensional Computing from Memory Snapshots	
5	634	Explainable AI Framework for Multiclass Attack Classification in Wireless Network Intrusion Detection Systems	

D2B2: 24 October, 2025 Session Title: Communication and Quantum Computing 10:45 AM – 11:45 AM Venue: ICT 126 Chair: Dr. Md. Delowar Hossain, CSE, HSTU		
SL	Paper ID	Title
1	753	Design of a Multiband THz Metamaterial Absorber for Refractive Index Sensing
2	820	Intelligent Resource Allocation for Holographic MIMO-based 6G Networks: A Deep Learning Framework
3	821	AI-Driven Multimodal Sensor Fusion for Predictive Maintenance of Smart Grid Equipment Using Vibration and Thermal Data
4	187	A Hybrid Region-based Data Acquisition Approach for Optimizing Energy Efficiency in UAV-Assisted Wireless Sensor Networks
5	872	Hybrid Protocol Design Leveraging MAC Operation to Optimize Routing Decisions in UAV-Aided IoT Networks
6	134	Heuristic-Flexible Ant Colony Optimization for Efficient Task Offloading in Fog Computing
7	283	A Self-Improving Robotic System for Medical Waste Management Using Federated Continual Learning