

**5th International Conference on Digital Futures and
Transformative Technologies (ICoDT2)**

**Schedule 17th December, 2025
Technical Session I: (Classroom-4) 1st Floor**

Session Chair: Dr. Farrukh Shahid

Paper ID	Title	Presenter	Time Duration
176	PulmoSense AI Combining Deep Learning and Mobile Technologies for Early Detection of Respiratory Diseases	Heshan Pathmakumara (NSBM Green University)	12:45 - 12:55
39	Feature Extraction and ML-Based Classification of Upper Limb EMG Signals across Male and Female Subjects	Hafiz Muhammad Usman (Air University)	12:55 - 1:05
82	Bridging Performance and Efficiency Distilling Vision Transformers for Remote Sensing	Muhammad Dawood Rizwan (NUST)	1:05 - 1:15
164	Influence of Leakage Impedance on Physical and Economic Parameters of a 2500 kVA Oil-Immersed Transformer	Kamran Dawood (Astor Enerji)	1:15 - 1:25

Lunch Break (1:30-2:30)

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Technical Session II: (Classroom-4) 1st Floor**

Session Chair: Dr. Shehzad Rasool

Paper ID	Title	Presenter	Time Duration
59	Improving Augmented Reality Serious Games for Cognitive Rehabilitation Using ID3 Decision Tree Algorithm	Muhammad Awais	03:30-03:40
23	Sleep Disorder Prediction with PSO-Optimized Machine and Deep Learning Models	Muhammad Inam UI Haq (The Islamia University)	03:40-3:50
116	Optimally Deep Networks - Adapting Model Depth to Datasets for Superior Efficiency	Filza Khan Tareen (University of Houston)	03:50-04:00
110	AquaVision YOLOv12-Based Instance Segmentation for Underwater Plastic Waste Detection and Quantification	ZOHAIB SHAH (NUST)	04:00-04:10 (Fee Pending)
146	Energy Efficiency Maximization Based on Orthogonal Multiple Access Assisted Intelligent Reflecting Surfaces Enabled Unmanned Aerial Vehicle 6G Network	Umar Ghafoor (NUST)	04:10-04:20 (Fee Pending)

Tea/Coffee Break (04:45-05:00)

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**Schedule 18th December, 2025
Technical Session III: (Classroom-3) 1st Floor**

Session Chair: Dr. Saif Ullah Awan

Paper ID	Title	Presenter	Time Duration
96	Integrating Activity and HRV Features for ADHD classification using HyperAktiv	Junaid Khan (FAST)	10:00-10:10
38	Supervised Learning for Predicting Gym Engagement Utilizing Biomechanical Features	Zuhaa Ejaz Kazmi (Air Univesity)	10:10-10:20
136	Brain Tumor Segmentation and Classification Using Multi-Scale SAM and VGG16	Hafiz Arslan Ramzan (NUST)	10:20-10:30
129	GLOFNet- A Multimodal Dataset for GLOF Monitoring and Prediction	Muhammad Anser Sohaib (NUST)	10:30-10:40
21	Blockchain Shard Model to Improve the Efficiency of Global Lecturer Research Collaboration	Inayatulloh Inayatulloh (Bina Nusantara University)	10:40-10:50 (Fee Pending)
50	Cyber Defense Strategy for Mitigating Hallucination-Like Disturbances in Knowledge Streams	Sana Zulfiqar (TMUC)	10:50-11:00 (Fee Pending)

Tea/Coffee Break (11:00-11:15)

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**Schedule 18th December, 2025
Technical Session IV: (Classroom-3) 1st Floor**

Session Chair: Dr. Khurram Joya

Paper ID	Title	Presenter	Time Duration
9	Design and Fabrication of Low-Cost Force Sensing Resistor for Prevention of Bedsores	Dr Sameen Malik	12:30-12:40
132	Tumor Detection Using Reduced Order Modeling in Digital Image Elasto Tomography	Fahiza Fauz F(NUST)	12:40-12:50
171	MedFusion-XAI: An Attention Refinement and Gated Fusion Explainable Swin Transformer for Medical Image Classification	Muhammad Younas Khan (Chongqing University)	12:50-01:00
108	SWiM3 Solid Waste Mapping Dataset	Muhammad Burhan Ahmed (AIR University)	01:00-01:10
155	Key Factor Identification and Implementation for Search Engine Optimization	Ume Rubab (NUST)	01:10-01:20 (Fee Pending)
69	Trust, Security, Privacy, and Ethical use of AI in Smart Systems	Ahmad Jawwad (Enterprise Consulting Services)	01:20-01:30 (Fee Pending)

Lunch Break (1:30-2:30)

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**Schedule 18th December, 2025
Technical Session V: (Classroom-3) 1st Floor**

Session Chair: Dr. Salma Sherbaz

Paper ID	Title	Presenter	Time Duration
150	Domain-Adapted Captioning Framework for Accessibility and Assistive Technologies	Hassan Ali Khattak (Sydney Polytechnic Institute)	02:30-02:40
57	Adversarial AI In Cybersecurity: Enhancing Machine Learning Models Against Evasion and Poisoning Attacks	Muhammad Sarim (TMUC)	02:40-2:50 (Fee Pending)
113	Battery Fast Charging	Hafiz Jawaad (NUST)	2:50-03:00
185	Development of a 3-Channel IFF System using AESA-based Magneto-Electric Dipoles	Wajeeh Hassan (SEECs NUST)	3:00-3:10
84	Addressing Annotation Scarcity in Sunflower henology Estimation with Self-Supervised Contrastive Pretraining	Saleha Fatima (NUST)	03:15-03:30 (Fee Pending)

Closing Ceremony