



Session X: Robotics and Artificial Intelligence (RAI)

- Venue : Auditorium, Atomic Energy Centre, Dhaka
- Time : 14:30 - 16.00
- Chair(s) : Shamim Ahmed Deowan, PhD
Associate Professor
Dept. of Robotics and Mechatronics Engineering, University of Dhaka
- : Asief Javed, PhD
Assistant Professor, Dept. of Mechatronics Engineering
Khulna University of Engineering & Technology
- Invited Lecture : **From Innovation to Responsibility: Building Trustworthy and Human-Centric AI for Sustainable Digital Futures**
IL-09
- Prof. Tahsina Farah Sanam, PhD
Institute of Appropriate Technology
Bangladesh University of Engineering and Technology

Contributory Papers:

Abstract ID	Title	Author Name(s)
RAI01-062	Public Awareness and Expectations of Accelerated & Reliable MRI Imaging Using Machine Learning	Prantik Baroi, Shrayasee Mandal, Ifreet Zareef Hossain, Nafisa Siddiquee, Mahir Mohtab Ayman, and Juena Ahmed Noshin
RAI02-086	A Framework for Utilizing Big Data Analytics and Machine Learning to Address Urban Traffic Congestion in Dhaka, Bangladesh	M Riazul Jannat Tonmoy, Nosrath Jahan, Ayon Kumar Ghosh Pappu, Partha Sharothi Mazumder, and Md. Mortuza Ahmmed
RAI03-131	Intelligent Threat-Detection Robot for Metal, Cable, and Explosive Hazards	Md. Meftahul Haque, Md. Sadik Al Rayhan, Hasibur Rahman Rabib, Mehedi Hasan, Md. Jewel Rana, Ashikur Rahman, and Mahadi Hasan
RAI04-142	Climate-Adaptive Energy Prediction for Electric Vehicles in Bangladesh: An LSTM Approach	Arnob Aich Anurag, Md. Nasif Rafidi, Shamiul Islam, Trisha Sarker, and Samiha Islam Abrita
RAI05-155	A Comparative Analysis of Ensemble Learning Models for Early-Stage Cardiovascular Disease Prediction	Shek Armanul Haque and Md. Mortuza Ahmmed
RAI06-246	Facial Expression Recognition from Video Using Haar Cascade and Convolutional Neural Networks	Sher Shermin Azmiri Khan and Mst. Shapla Khatun
RAI07-257	Design and Simulation of a System Identification and LQR Control of a Propeller-Operated Balancing Beam Using MATLAB/Simulink	Nuzhat Anwar, Jui Chakma, Fardin Ahmed, Ahmad Asif, Syed Areeb Ashraf, and Muhibul Haque Bhuyan