

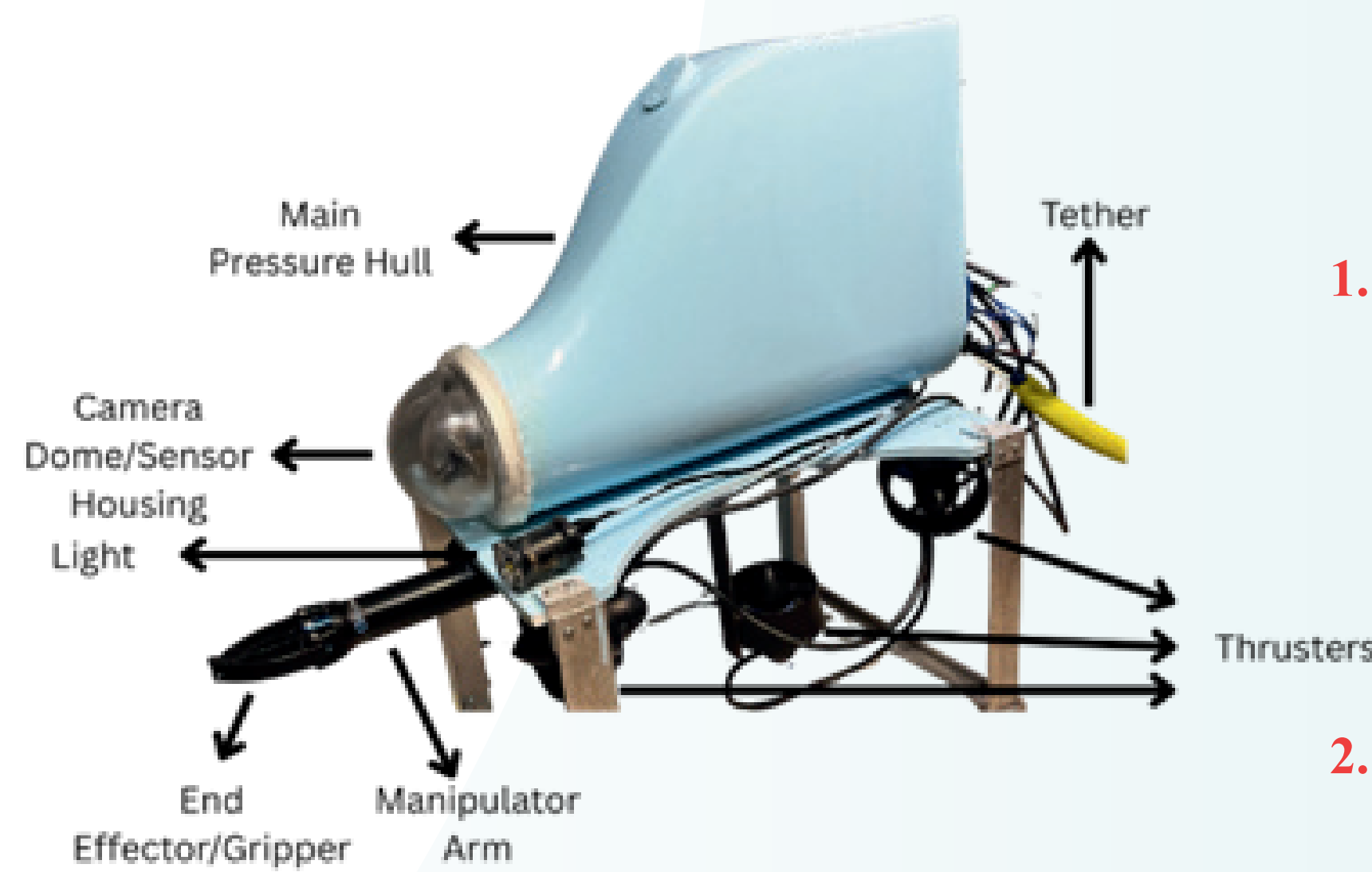
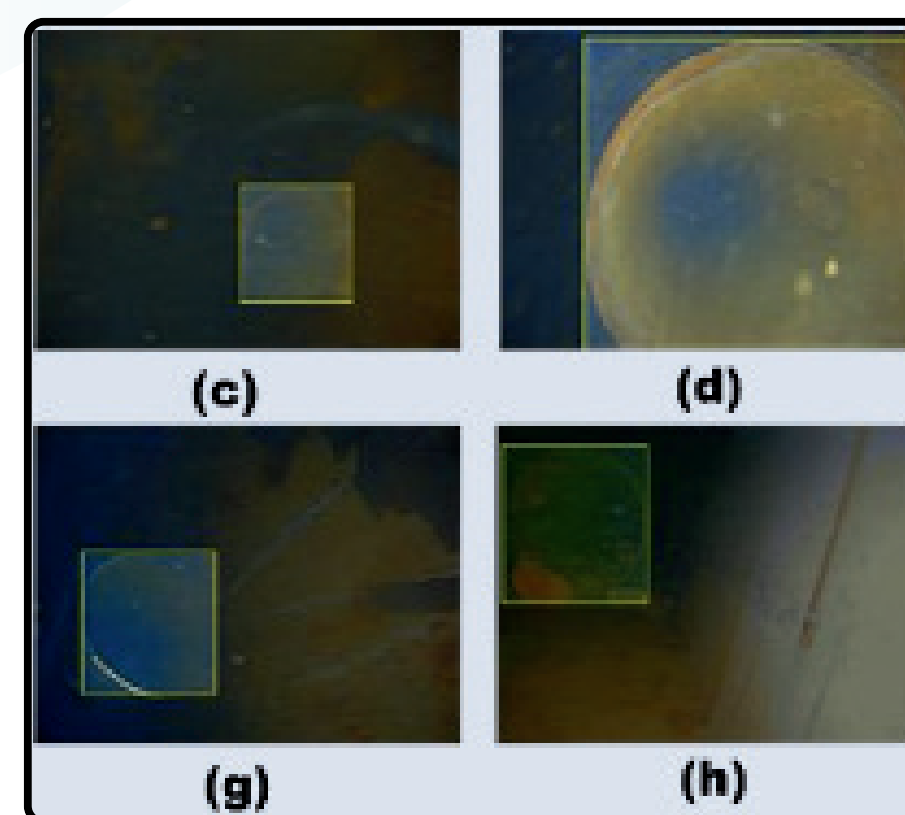
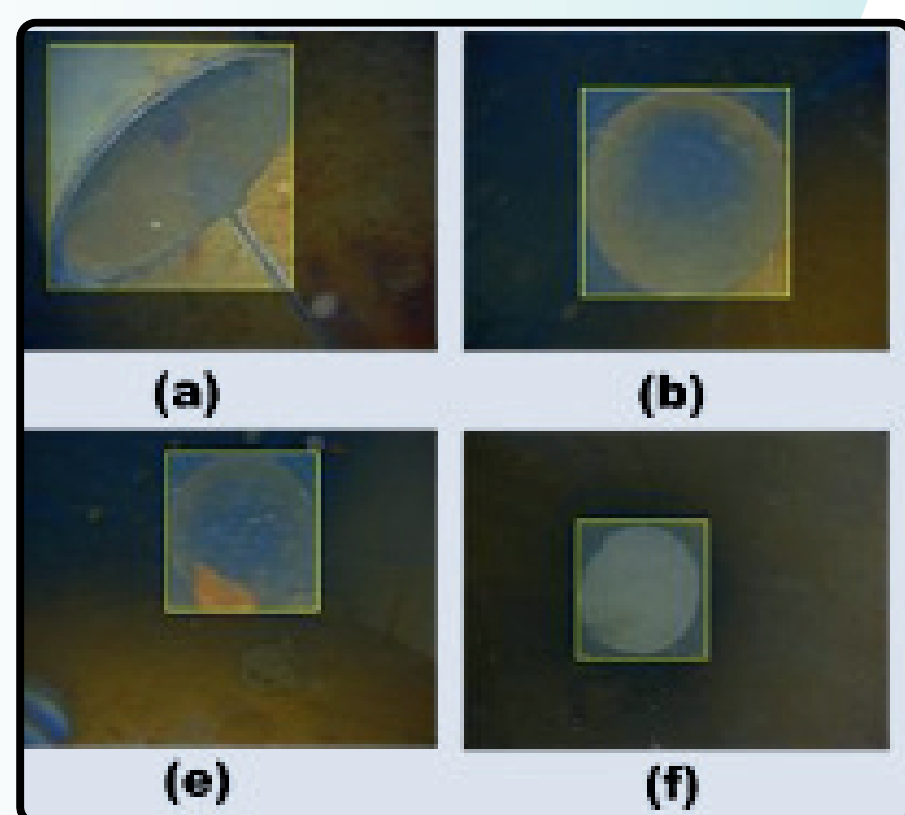
2026

NEERVAHAN: Design and Implementation of a hybrid underwater vehicle manipulator (HUVMM) system for cleaning of bio-foulings on a submerged pipeline in a sea

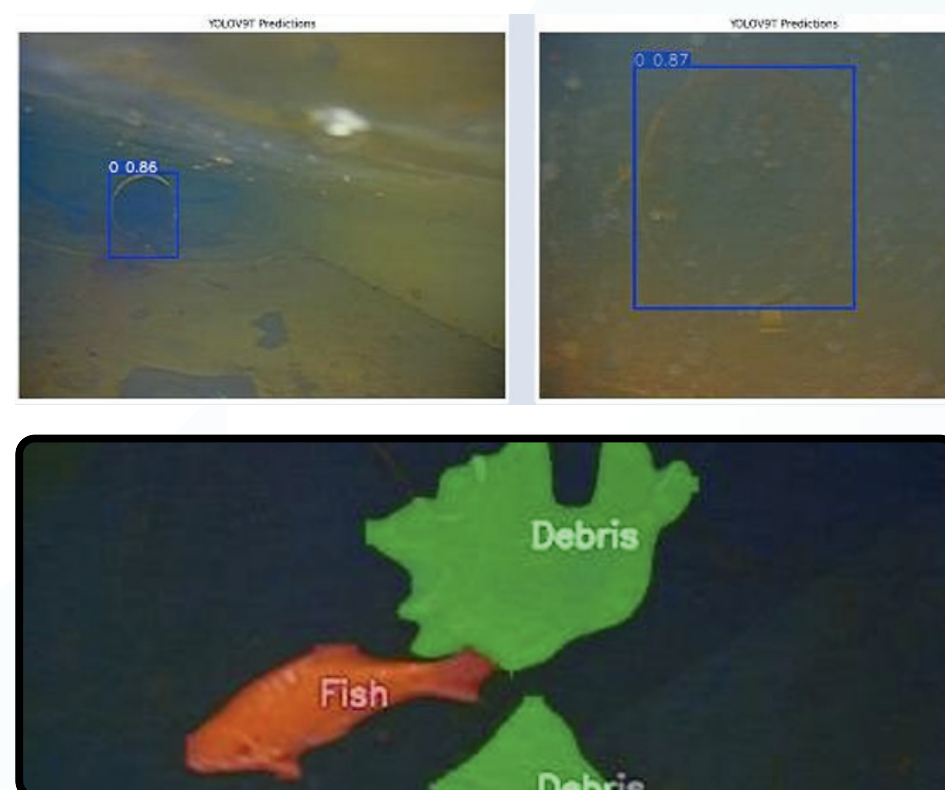
MARS LAB, Dept. of EIE,
National Institute of Technology Silchar, Assam

ANOTHER SIGNIFICANT PROJECT FROM OUR LAB

Image Processing through YOLOv9 architecture

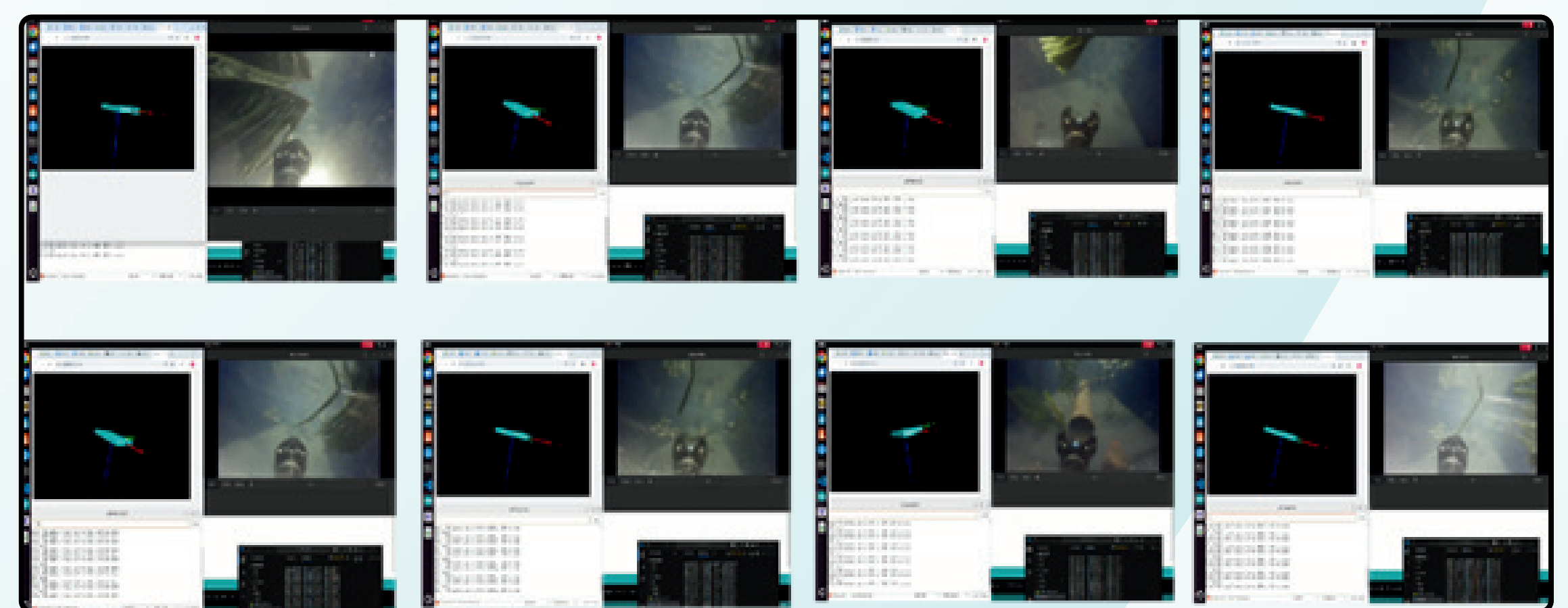
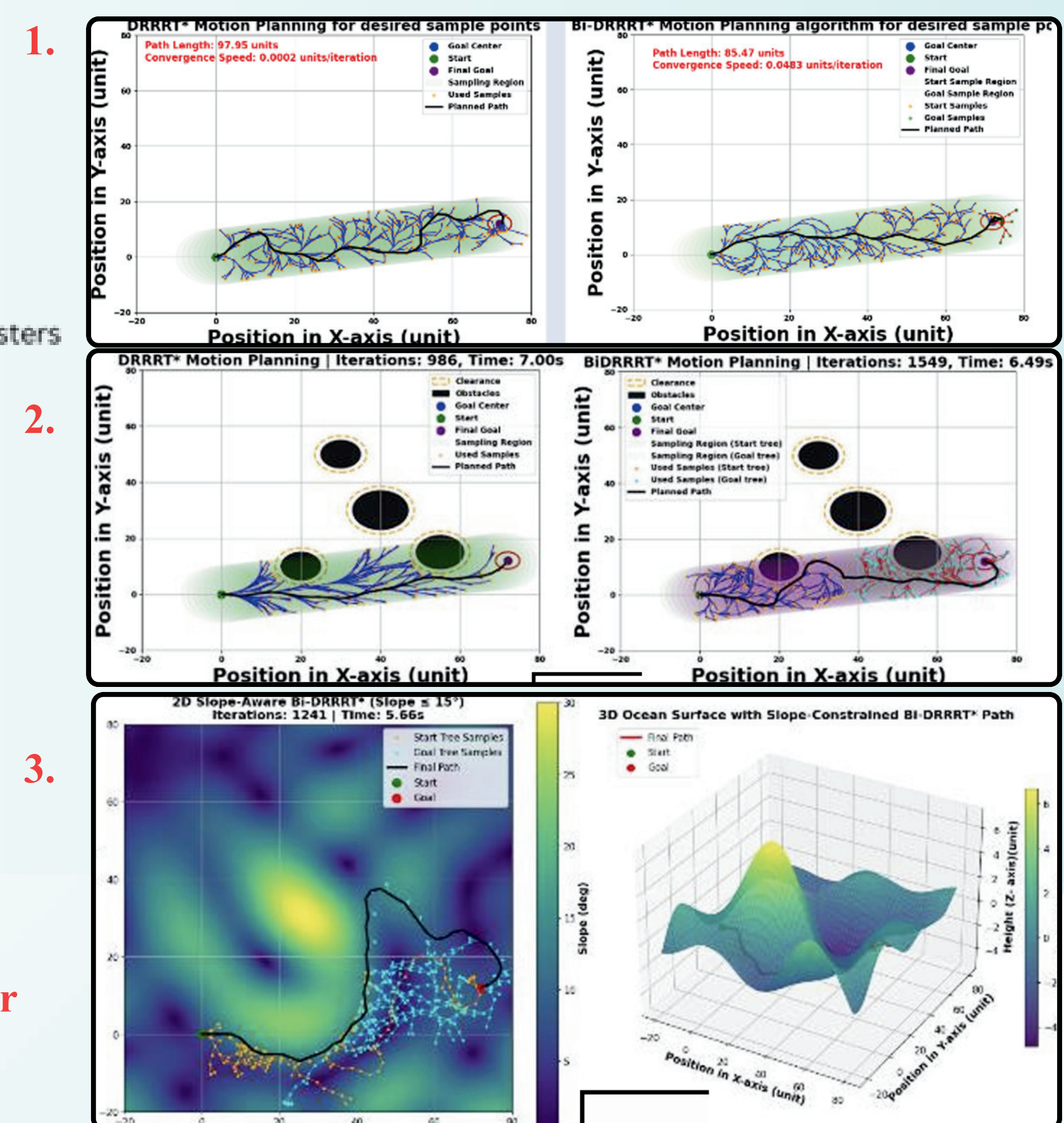


Developed Prototype



1. Bi-DRRRRT* based Path planning
2. Obstacle avoidance
3. Slope-aware based Bi-DRRRRT* planner

Motion Planning through Bi-DRRRRT* algorithm



Real-time experiments done in an open environment

TEAM MEMBERS:

Principal Investigator: Dr. Koena Mukherjee

Image Processing: Mr. Misbahul Karim, Mr. Faruk Ahmed, Doneela Das

Motion Planning: Mr. Shwetangshu Biswas, Mr. Arpan Ghatak, Mr. Amandip Dutta

Prototype: Mr. Joy Narayan Das, Mr. Tonmoy Kanti Bhattacharjee, Mr. Arpan Ghatak

