Centre for Autonomous Vehicles

Internship Modules for Engineering students

M1.1   Graph Neural Network with RNNs based trajectory prediction of dynamic agents for autonomous vehicle using Lyst data sets

M1.2   GAN for generating synthetic dataset and augmenting dataset for autonomous vehicle perception system.

M1.3   Underwater Naval mine detection

M1.4   ML based Crop Monitoring system

M1.5   ML based Land Classification

M1.6   ML based Sea ice Classification

M1.7   Radar Based Image classification

M1.8   Battery Management System (BMS) Design and Optimization

M1.9   Design and Analysis of EV Powertrain

M1.10 Sensing, Localization and Navigation using Stereo Camera

M1.11 5G technologies for Autonomous vehicles

M1.12 AI based Beam management for 5G networks

M1.13 V2V Communication for Collision-avoidance system using Proteus software

M1.14 Sensing and Localization of Sound source

M1.15 ADAS in autonomous vehicles using simulation tools

M1.16 Brain-Inspired Auditory Signal Processing

M1.17 Autonomous Driving with Spiking Neural Networks

M1.18 Integration of Multi-Camera Systems to Generate Bird's Eye View for Autonomous Vehicles

M1.19 Optimizing Autonomous Vehicle Performance with Advanced Localization and Path Planning Algorithms

M1.20 Enhancing Vineyard Yield Through Autonomous Vehicles with Integrated Geospatial and Sensor Data

M1.21 Immersive Driving Experience: 6DOF Motion Platform Design and Implementation

M1.22 Predictive Motion Control Algorithms for Enhanced Driving Dynamics

M1.23 Deep Learning for Autonomous Driving: An End-to-End Approach

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