DATX02-22-06

Automation of Scaled Vehicles

Supervisor: Elad Michael Schiller

Background:

The transport sector is going through a major with the introduction of autonomous driving systems. The design and development of such systems require a broad set of skills, which this project aims to develop.

Project and problem description

The task of this project is to design and implement a vehicular system that can move autonomously while communicating with other vehicles for coordinating their actions. This project considers different simulative approaches as well as working with scaled vehicle units (robots). The project requires the ability to work in teams.

Technology areas covered in this project:
Software design and development
Control theory
Modeling/simulation
Vision and artificial intelligent
Communications

Team size

4-6 persons, 1-2 teams

Objective section

Students on D, E, IT, Z, and Engineering Physics