

# Computer Vision Assignment

## Topic: Edge detection

### 1. Objectives

The objectives of this assignment are:

- Understanding of various image edge detectors: Derivative of Gaussians, Sobel filters, Canny edge detector
- Implementation of Canny edge detector
- Application of Canny edge detector in Lane detection problem

### 2. Problem Statement

This assignment covers the implementation of Canny edge detector and its application in Lane detection problem. Please follow the guideline given in the attached IPython notebook to start.

### 3. Guideline

Follow the guideline in the attached IPython notebook to complete the assignment. Note that the assignment's notebook includes both coding and written questions. Please hand in this notebook file along with all the outputs and your answers to the written questions.

### 4. Evaluation

Your results will be judged based on:

- Output of your code on the notebook
- Correctness of your implementation
- Your answers to the written questions