# ICE3111 – Computer Vision – Lab 7 – Lab report

(worth 75% of Assignment 2)

* Deadline: 08/12/2022 at 23:59
* Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_
* Your user ID: \_\_\_\_\_\_\_\_\_\_\_\_\_

**NOTE: When you add a listing in a report, you must format it properly!** - Use a monotype font so that it is easily readable (e.g. Lucida Sans Console or Courier New). This means that all letters take up the same space on the page; - Indent the code; and - Use (colour) syntax highlighting. - Show line numbers (optional)

# 1. Changes of illumination

## Noise [10 marks]

* You must show here evidence of testing
  + Use several videos
  + Use various filter size
* What is the final filter size that you selected and why?

## Change of illumination [10 marks]

* You must show here evidence of testing
  + Use several videos
  + Use various thresholds
* What is the final threshold that you selected and why?

# 2. Clean the foreground mask [10 marks]

* You must show here evidence of testing
  + Use several videos
  + Use various structuring element size
* What is the final structuring element size that you selected and why?

# ~~3. Identify the moving objects~~

The testing of this part is performed in the next section.

# 4. Highlight moving objects in the original video [15 marks]

* You must show here evidence of testing
  + Use several videos
* Discuss deficiencies of the current implementation, i.e. what are the issues we should fix?

# 5. Track the position of each moving object [10 marks]

* You must show here evidence of testing
  + Use several videos

# 6. Remove static objects if any [20 marks]

* Give a description of your algorithm (use flowchart or pseudocode)
* You must show here evidence of testing
* Discuss potential deficiencies of your solution

# Source code [25]

* Make sure the code is commented to explain what it is doing.
* **DO NOT FORGET TO ADD A PREAMBLE** to explain what the program does. Also explain the command line arguments if any. [1 mark].