Embedded System Design Assignment 3

This homework corresponds to

- Attendances: Week 6 and 7 (2% of total score)
- Homework 3: (10% of total score)

What to submit: Report only

- There is no fixed report format, except for the hard page limit, which is 8 pages.
- Rename your report to your_student_num.docx (or hwp), (ex: 2015123456.docx) and submit it.

Deadline: Refer to I-Campus

1. Image Classification with image files, a video file, and camera.

(5% of total score)

Watch the lecture of Week 11-1. Once you are done, do the following.

- 1. Image recognition with image files
 - A. Download Images.zip.
 - B. Unzip it in Jetson.
 - C. Perform image classification with the five images that you unzip.
 - D. Capture the results for all the five images and attached them to your report.

(You do not need to add any explanations on them.)

- 2. Image recognition with a video file
 - A. Download video.mp4.
 - B. Perform image classification with the video file.
 - C. Capture a result (Just one result in random point in video) and

attached it to your report.

(You do not need to add any explanations on them.)

- D. Upload the output video file that you get after doing image classification, along with your report.
- 3. Image recognition with camera
 - A. Do a camera demo for image classification.
 - B. Capture three images during your live camera demo. A capture should include the classified object and its accuracy. (You do not need to add any explanations on them.)
 - C. Attached them to your report.

2. Object detection with image files, a video file, and camera.

(5% of total score)

Watch the lecture of Week 11-2. Once you are done, do the following.

- 1. Object detection with image files
 - A. Perform image classification with the five images from Images.zip.
 - B. Capture the results for all the five images and attached them to your report.

(You do not need to add any explanations on them.)

- 2. Object detection with a video file
 - A. Download video.mp4.
 - B. Perform the object detection with the video file.
 - C. Capture a result (Just one result in random point in video) and attached it to your report.

(You do not need to add any explanations on them.)

- D. Upload the output video file that you get after doing image classification, along with your report.
- 3. Object detection with camera

- A. Do a camera demo for object detection.
- B. Capture three images during your live camera demo. A capture should include the classified object and its accuracy. (You do not need to add any explanations on them.)
- C. Attached them to your report.