

COMP 9074

MACHINE VISION



LAB 1 – Image capture

BACKGROUND.

In Lecture 1 we looked at basic OpenCV functions for capturing, recording, loading and saving images and videos. The goal of this lab is to setup a development environment and implement some basic functions to make sure that the environment is setup correctly.

TASK 1

Create a Python program that captures an image sequence from your web camera and saves it as a video to a file using OpenCV. Also display the video on screen while you are recording it.

TASK 2

Create a Python program that loads the video file created in task 1, extracts the 10th frame from this file and saves this frame into an image file using OpenCV.

TASK 3

Create a Python program that loads the image file created in task 2 and displays it on the screen using OpenCV.