

Computer Vision

Image Filtering and Edge Detection

1 Instructions

- Please carefully read all assignments and there is no choice.
- For a programming, you must follow the following **file name convention**: If your roll number is **S20170010XYZ** and assignment code is **AssignFltED**, then the of name of programming file would be **S20170010XYZAssignFltED**.
- You may use either MATLAB or Python for programming.
- Strictly follow the above instructions.

2 Assignments

AssignFltED: (a) Implement the whole procedure listed on the slides 19 and 20 of the CV-Lecture6.pdf (shown in Figure 3.43 (a-h)). The input image is Sampleflt. (**Marks 10**)

(b) Implement Canny edge detection technique. The input image is lena. (**Marks 10**).

Submit only one programming file including (a) and (b). Save the outputs of (a) as outputflt1.jpg, outputflt2.jpg,... etc. and the output of (b) as outputED.jpg.