

EE-608: DIGITAL IMAGE PROCESSING

Lab Assignment 5

Link for sample images : [Sample Images](#)

AIM:

1. Perform image smoothing and sharpening, in spatial domain using different spatial filters and compare the performances
2. Perform image smoothing and sharpening, in frequency domain using different filters and compare the performances
3. For the given image perform edge detection using different filters and compare the results

Libraries: Opencv to read or write image

Matplotlib to display image

Numpy wherever necessary Basic

python functions

Deliverables:

Just give a concise report of what you understand in your own words, not too heavy theory taken from the web.

- 1) Write a python or matlab code to implement above given tasks.
- 2) Analyze the tasks clearly and the mathematics behind the task.