Homework 5
Due - 10/25 @ 1530

Digital Image Processing

ECE 4501/6782

*Instructions: **Please submit 1 PDF document with your answers**. Handwritten notes can be scanned with apps such as CamScanner. Typing the answers out is recommended, wherever possible. **Include any code if attempted.** Assume that you can use MATLAB/Python functions wherever it is not mentioned EXPLICITLY to build your own.*

Learning Objectives

Non Linear Filter Design and Application

Question 1 *15 points*

Design a "Trimmed Mean Filter"
Apply your filter to the images with suitable parameters (P, Q) attached to this homework. Report P, Q (check the module), and the final image(s).

Question 2 *25 points*

Design a "Bilateral Filter" (Module 5).
Apply your filter to the images with suitable parameters (K_G, σ_G, K_H, σ_H) attached to this homework. Report K_G, σ_G, K_H, σ_H (check the module), and the final image(s).

Make one PDF file that contains:

a. Report all the images.
b. The code