

EE225B Homework 2

due on 02/06/2019 12:00pm; submitted through Gradescope

PROBLEM 1: Problem 2.50 from 4th edition of Gonzalez and woods.

PROBLEM 2: Problem 2.59 from 4th edition of Gonzalez and woods.

PROJECT 1: Implement the noise reduction for the noisy image called 'apollo 17_boulder_noisy.tif' and submit your MATLAB code and the denoised image. The image can be found in the hw1_sp19.zip file.

PROJECT 2: Project 2.7 from 4th edition of Gonzalez and woods. The images can be found in the hw1_sp19.zip file ('angiography_live_image.tif' and 'angiography_mask_image.tif').

PROJECT 3: Project 2.9 from 4th edition of Gonzalez and woods. The image can be found in the hw1_sp19.zip file ('rose1024.tif').

PROJECT 4: Project 2.10 from 4th edition of Gonzalez and woods. You will need to use the function you have created in PROJECT 3. The image can be found in the hw1_sp19.zip file ('angiography_live_image.tif' and 'rose1024.tif').

Note;

1. Alternatively, all the images can be downloaded from <http://www.imageprocessingplace.com>.
2. For each problem, you need to:
 - a. Email your source code (**zip** it before you email) to **ee225bsp19@gmail.com** if the question asks for any implementations.
 - i. Make sure it is executable because I need to run your code to give you a score. Either MATLAB or Python is okay. Please avoid C/C++ if possible (appreciate it!).
 - ii. Email title: FirstName_LastName_HW#. For example, Luya_Zhang_HW1
 - b. Submit a **single** PDF file (not word or other formats) on Gradescope which contains:
 - i. your answer for each problem;
 - ii. your source code (please also paste your source code here; screenshots are okay);
 - iii. your output image.

Make sure to prepare your solution to each problem on a **separate** page. On Gradescope, please select and match each page to the corresponding problems.
3. Please also read the class website carefully about the homework policy.