EE 5356 - DIGITAL IMAGE PROCESSING - PROJECT 5

Histogram Equalization and Specification

Steps:

1. Read ‘elaine.512.tiff’ image and obtain its histogram.

2. Perform global histogram equalization on the image and obtain its histogram.

3. Perform local histogram equalization on the image and obtain its histogram.

4. Perform direct histogram specification on the image where the desired histogram is a straight line from (0,0) to (1,1).

5. Repeat step 1 to 4 for ‘pout.tif’ image.

Submit the following:

1. Display the image and its histogram obtained in each step.

2. Compare the histogram modification techniques.

3. Give the matlab code.

References:

1. Practical image and video processing using MATLAB by Marques, Oge