

Image and Video processing (IIVP)
Lab Assignment-5
Octave/MATLAB

%PROBLEM%

Time: 1Hr
Date-08/09/2020

1. Consider the image attached in mail.
 - a. Convert and normalize the image into 256*256 gray scale with maximum intensity value 256(here you can use inbuilt functions like resize).
 - b. Now, Suppose if the reference pixel $P(i,j)$ is having intensity value 90 then considering 90 as threshold value, compare $P(i,j)$ with its 8-nearest neighbors (leave boundary pixels). Generate an eight bit pattern as shown in figure below. Convert the 8 bit pattern into decimal value and replace it with the reference pixel $p(i,j)$. Repeat the same for each pixel and generate another image of size 254*254(excluding boundary pixels).
 - c. Generate the histogram of feature image(output of b part).
 - d. Equalize the image and show all three outputs(of part b,c and d)

