

Digital Image Processing

Assignement 1

Problem 1.

Use Matlab for this problem.

- I. Type help **imread**, help **imwrite** and help **imshow** at the Matlab prompt to read the online help for these commands.
- II. Try to use the given images to apply the previous functions.
- III. Try to apply different image interpolation methods to the input images (use **imresize** function)
- IV. Submit your code and the output images

Problem 2.

Use Matlab for this problem.

- I. Use the **imread** function to read in the image. Let's call this image J1.
- II. Make a new image J2 that is the photographic negative of J1. To do this, set $J2 = 255 - J1$.
- III. Use the **imshow** function to display the new image J2
- IV. Use the **imwrite** command to write it out as a JPEG file.
- V. Submit your code and the output images