DIP Assignment 2

Deadline: 08/10/2016

1. Take any grayscale image as input. Apply intensity slicing technique to color the image. Decide from the histogram of the original image regarding the number of colors.

2. Apply Huffman coding technique to code a grayscale image and your program should get back the decoded image from the compressed image and show it.

3. Take any grayscale image and reduce spatial redundancy of the image by taking difference of intensities. Then apply Golomb coding on the result image to code it. Then decode the result to show the image.

4. Take any grayscale image and map the image by applying run-length encoding technique to reduce the spatial redundancy. Then apply modified Huffman coding technique (row-wise) to compress the image. Apply reverse procedure to get back the image.

5. Take any RGB color image and show the results after applying (i) median filter and (ii) Laplacian.

6. Take any RGB color image and apply the gradient based technique to detect the edges.