Final image processing project Description

Step 1: Load the given sample image (sampleimage.png) from the file and convert it into greyscale, 8bpp format.

Step 2: Enhance the image to the best possible quality by applying the following operations.

a.     Noise filtering

b.     Contrast stretching

c.      De-blurring (sharpening)

d.  Any other image enhancement operation that you may think appropriate

You should try at least two different filters/algorithms for each stage. Save the output obtained with each algorithm and compute the SNR resulted by each filter/algorithm.

Step 3: Plot the histogram of the final image.

Step 4: Compute the entropy of the image and the best achievable compression ratio compared to compared to 8bpp gray-scale representation.