

Experiment 6

Histogram equalization and matching

Problem Objective:

Q 1. Write python modular functions/subroutines to perform histogram equalization on the given set of (gray and colored both) images.

Input: Gray scale image (lena_gray_dark), Color image (livingroom_dark)

Output: Histogram equalized images, Input image histogram and output image histogram

Q 2. Write python modular functions/subroutines to perform histogram matching on an input image with respect to a target image.

Input: Two gray scale images (one as source, other one as target), Two color images (one as source, other one as target)

Output: Histogram matched images, Source image histogram and Target image histogram.