Homework 7

EE604: Image Processing

Question: Implement the Local Binary Pattern (LBP) feature extraction algorithm from scratch and apply it to the attached image. Divide the image into a 2x2 grid of cells, and compute the LBP histogram for each grid cell. Concatenate all four LBP histograms to form a global feature vector for the image. Display both the LBP image and the plot of the resulting global feature vector.