

Assignment 2

Write a python code that depends on the OpenCV library and that performs all the methods of this lecture:

1. Point transformations
2. Local Transformations
3. Global Transformations: AHE, CLAHE, Histogram Equalization, Histogram Specification
4. Linear Filtering: Mean, Gaussian, Gradient, Laplacian, with applications.
5. Non-linear filtering: Min, Max, Median, and Mean Shift Filters.

Simulations should be conducted to evaluate (qualitative and quantitative) and compare the methods with various parameters.