RO-1.0X

Assignment 4 Image Smoothing

Problem Statement:

- Given files are
 - o "assignment4_1.jpg" and "assignment4_2.jpg"
 - Images with an induced noise.
 - o "coords_1.txt" and "coords_2.txt"
 - 50% of the noise induced coordinates and their original values.

Tasks

- Figure out the distribution of the noise induced in the given image.
- Apply appropriate Image Smoothing technique to remove noise from the image.

• To Submit

- o "answer1.txt", "explaination1.pdf" and "answer2.txt", "explaination2.pdf"
 - Text file contains the correct option for noise from the following options:
 - 1. Gaussian Noise
 - 2. Salt and Pepper Noise
 - 3. None of the above
 - if the option 3 is correct, in explaination also give the name of distribution of the noise that you think is present in the image.
 - **Explaination** file contains the explanation [plots, etc...] for the conclusion of noise distribution and also the applicable smoothing method to filter that noise.
- o "[method]_img_1.jpg" and "[method]_img_2.jpg"
 - Output from applying the appropriate smoothing method. {for eg: gaussian_img_1.jpg}
 - To submit the assignment put both the files in a folder named username, where username is your user name with which you signed up at DeepEigen.
 - Submit **username.zip** file