Digital Image Processing (2022)

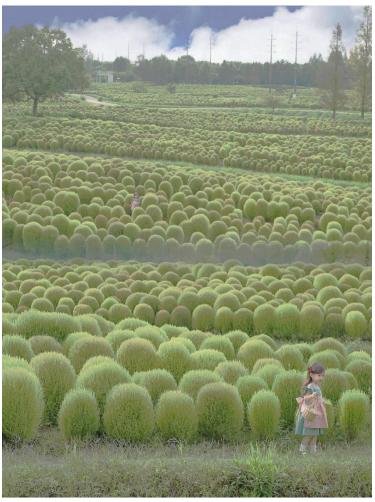
Homework

{Contrast Enhancement + Sharpness Enhancement + Denoise}

Deadline: 111.10.31

Contrast Enhancement (30%)

Using C++ or C, improve the contrast of the given input image. You should output images with 2 different degrees of modification.



[Input] input1.bmp
[Output] output1_1.bmp output1_2.bmp

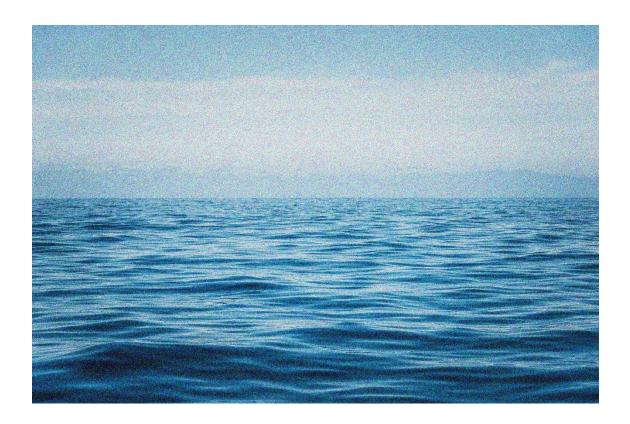
Sharpness Enhancement (30%)

Using C++ or C, perform sharpness enhancement on the given image. You should output images with 2 different degrees of modification.



Denoise (40%)

Using C++ or C, remove the noise in the given input image. You should output images with 2 different degrees of modification.



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Homework Rules and Grading Policy

Homework will be graded by:

- 1. Correctness (70%)
- 2. Report (30%)
 - Explain your algorithm and do some discussion in at most 4 pages. (A4)
 - Different degrees of modification have to be differentiable.
 - You should provide comparison between distinct levels of modifications for each type of enhancement.

Upload:

[web] E3

[File Name] hw2 StudentID.zip (ex: hw2 123456789.zip)

- report in the format of .pdf.
- C, C++ codes with comments.
- ReadMe.txt file which describes how to run your program.
- all output images.

Remind:

Deadline

If you have a late submission by 1 to 7 days, you will only get 70% of the score.

We DO NOT accept any late submission after 7 days after the deadline