

# Digital Image Processing, 2024 Spring

## Homework 1

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Due 23:59 (CST), Apr. 7, 2024

## Problem 1:

(a)

origin image histogram image

(b) histogram equalized image histogram of equalized image

(c) CLAHE processed image histogram of CLAHE processed image

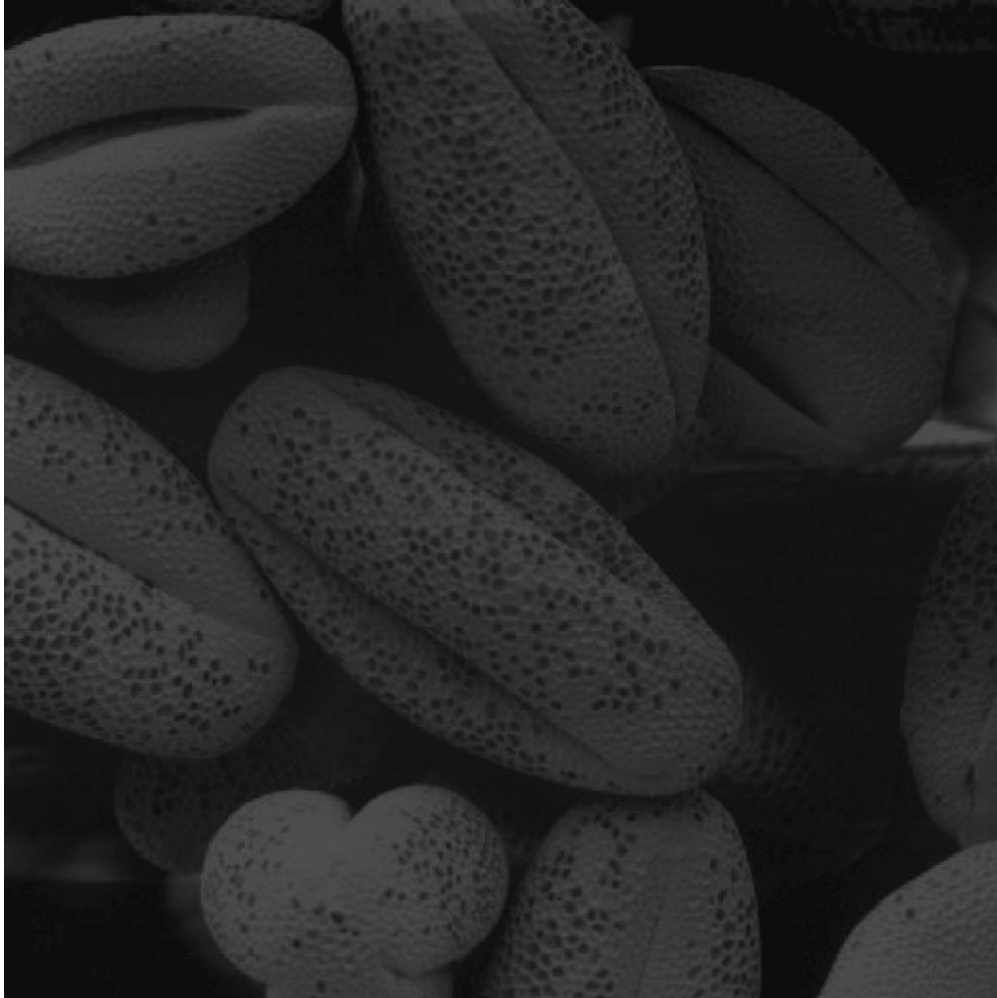


Figure 1. testing

## Problem 2:

- (a) Laplacian kernel processed image  
Separated Laplacian kernel processed image
- (b) Sharpened image with unseparated Laplacian kernel
- (c) Sharpened image with unsharpen mask

### Problem 3:

processed by the median filter and Gaussian filter  
cause of the results