BPHS 4090 (Fall 2013) - Computer Exercise 4: Image Processing

Due Date: Dec. 4, 2013  5:00 PM

Question

Find a greyscale picture of your choosing. Your task here is to convolve the image with a kernel that you create so to ‘process’ the image\(^1\). Make sure to clearly explain in your code any assumptions you made (e.g., how you handled the edges).

a. Create a sharpening kernel and apply it to your image.

b. Create a blurring kernel and apply it to your image.

c. Are the results as you expected? Briefly explain why or why not?

Try using a relatively simple image to start off with (e.g., the images from HW2).

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\(^1\)If you are using Matlab, the functions imread, imagesc, and rgb2gray are useful.