

CSC 3141 - IMAGE PROCESSING LABORATORY (2022/2023)

Assignment 06

Due date: May 21st 2024, 11.59 PM

Submit answers using a **single PDF file**. Paste your codes or screenshots of codes for each question with the corresponding question number.

1. Use the image: **overlap_coins.jpg** and perform the following tasks.
 - a. Count the number of coins available in the image.
 - b. Calculate the total area covered by the coins.
2. Compare and contrast cv2.Sobel, cv2.Laplacian and cv2.Canny with some examples. You may paste the screen shots of resulting images for each function.
3. Compare the results of applying spatial domain soothing operations and frequency domain smoothing operation to the **clown.jpg** image which is corrupted by patterned noise. Paste the screen shots of resulting images for each operation along with the codes.