

Digital Image Processing

Assignment 0

Questions

1. Select any 4 images of your choice (it is okay to select them from the internet).
2. Load the images using OpenCV.
3. Display the images using matplotlib (make a 2x2 grid using subplots). Do the images seem unusual? Fix the issue.
4. Convert any color image (of your choice) to grayscale without using a function and save that image.
5. Print the dimensions of one of the images (Height, Width, Channels).
6. Check the range of values in the image. What do you infer from this? Include your answer in a markdown cell.

Optional Questions

1. Learn to read, show and save images using Scikit-image, PIL and Matplotlib also.
2. Capture an image using a webcam, load it and follow the above procedures. Save the image using OpenCV's utility function.