

CS352

Image Processing

The task description:

- Create a GUI desk application using Tkinter (the code available is section_2), the following functions should be included in the GUI:
 1. Read image.
 2. Change RGB to Gray Scale image
 3. Save image
 4. Resize image
 5. Rotate image
 6. Translate image
 7. Show histogram of gray image
 8. Show histogram of RGB image
 9. Histogram equalization
 10. Contrast Stretching
 11. Thresholding
 12. Transformation functions(Negative, Log, Power Law)
 13. Blurring filters (Gaussian, Average, Median, Max and Min)
 14. Add noise (gaussian, salt&pepper)
 15. Sharpening filters
 16. Edge detection(Sobel and Canny)

The deadline: 15/12/2024 at 11:30 PM

The task is an individual contribution of each student, teams collaboration is not allowed. Each student will sent the task as a compressed file(.zip) with the code files and the used image with the academic email.

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