

Computer Vision Task 2 Report

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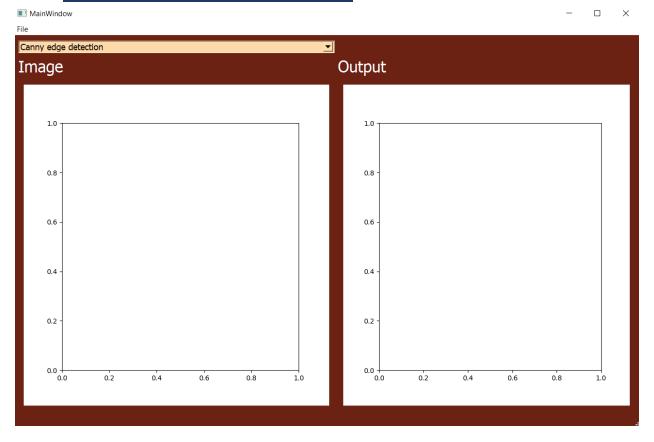
Dr. Ahmed M. Badawi.

Demonstrators: Eng. Ayman Anwar and Eng. Leila Abas.

• Contents:

- 1- How to use the GUI.
- 2-Canny Edge Detection.
- 3-Line Detection Using Hough Transform.
- 4- Circle Detection Using Hough Transform.
- 5- Active Contour Model (Snake) using greedy algorithm.

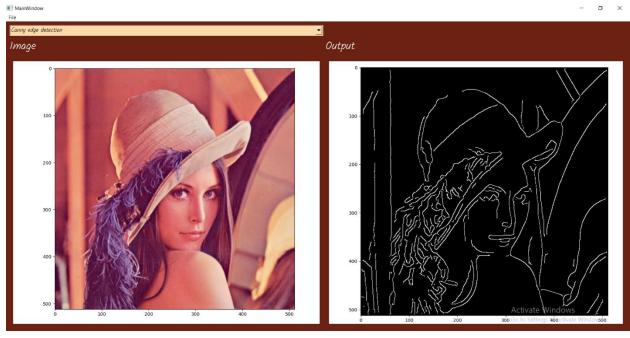
1- How to use the GUI:



- Click on File from the menu bar, you will see one option, Load img.
 - O Click on Load img to open an image in the image area.
 - o You can Load both gray scale images and colored images.
- Click on the combo box and pick any of the tasks required:
 - o The tasks are applied on Image and the output is displayed on the Output area.

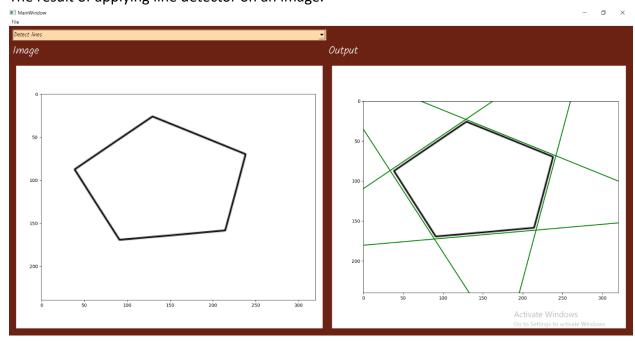
2- Canny Edge Detection

• The result of applying Canny edge detector on a colored image.



3- Line Detection Using Hough Transform

The result of applying line detector on an image.



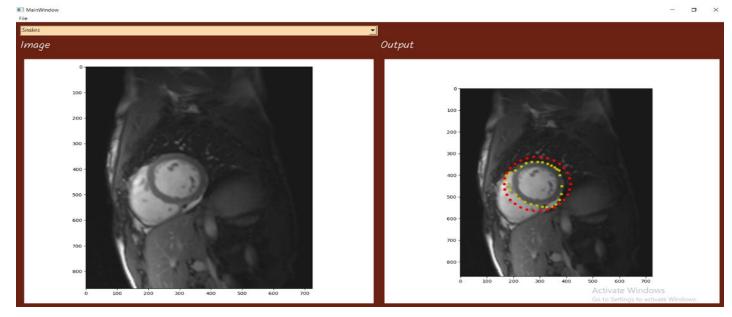
4- Circle Detection Using Hough Transform

• The result of applying circle detector on an image.



5-Active Contour Model (Snake) using greedy algorithm

- initial contour in red color and final contour in yellow
- 1- result of applying snake with: α =100, β =200, initial iteration=30, center of initial circle= (290,440)



2-result of applying snake with: α = 170, β =90, initial iteration=70, center of initial circle= (254,158)

