FACULTY OF ENGINEERING

Cairo University

Systems and biomedical

Engineering Department

Computer Vision Task 3 Report

Prepared by:

Gehad Mohamed

Al Zahraa Mahmoud

Noran Tharowat

Nancy Salah
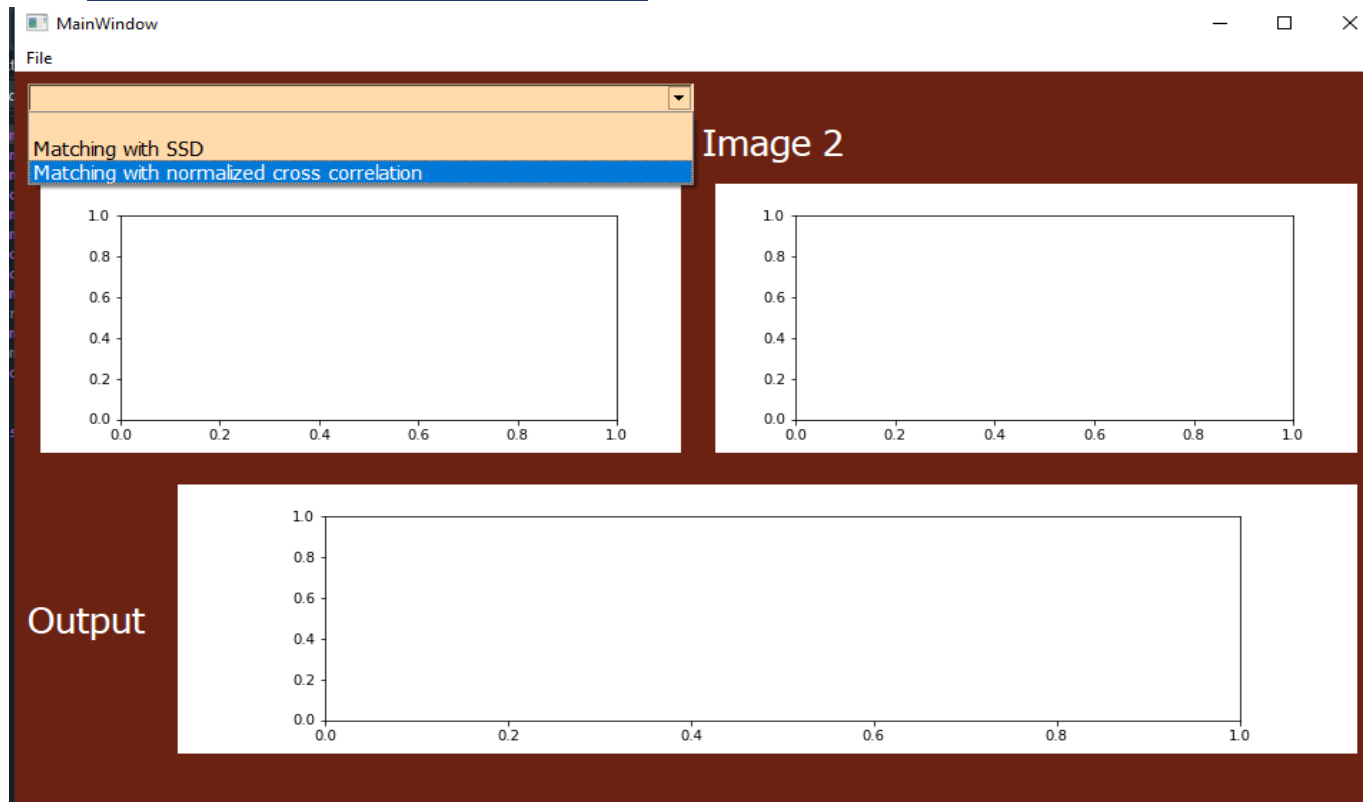
Supervised by:

Dr. Ahmed M. Badawi

• <u>Contents:</u>

1.How to use the GUI

- Click on File from the menu bar, you will see two options, Load img1, Load img2.

    o   Click on Load img1,2 to open images in the image area.

- Click on the combo box and pick any of the task requirements:
    1.   Matching with SSD.
    2.   Matching with normalized cross correlation.

.

2.Computation time in second

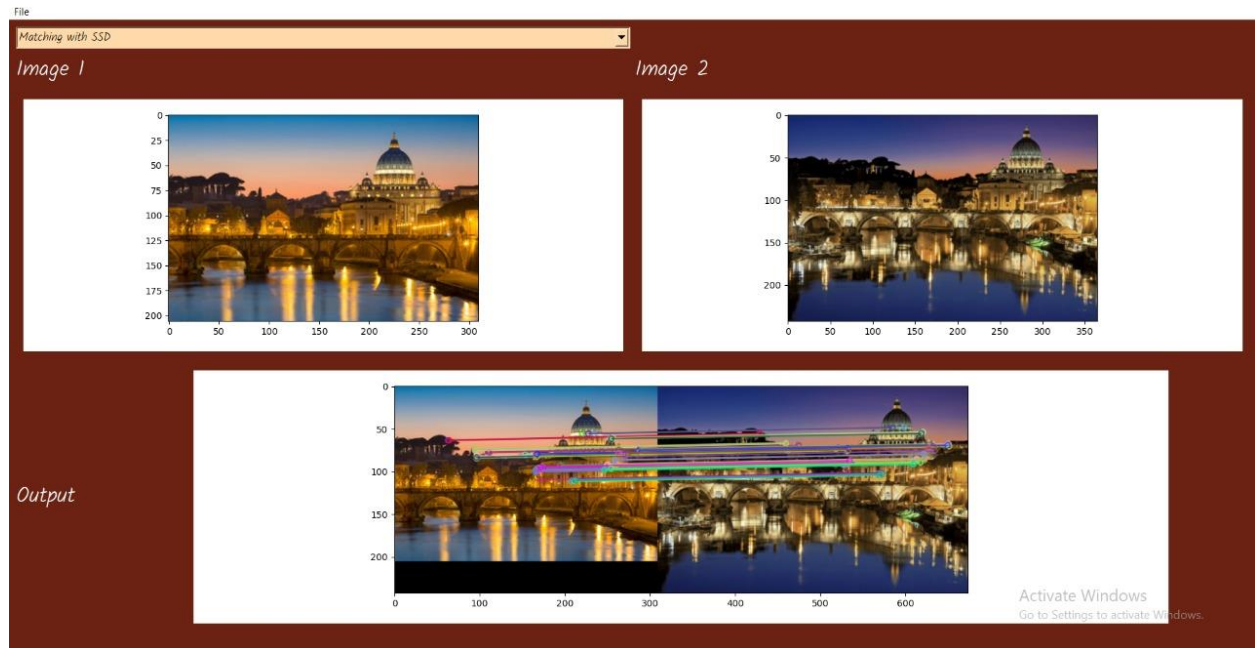|	Image 1	Image 2
Harris corner detection	7.33279800000002	10.044935899999999
SIFT descriptors	6.825931799999999	14.3985451
Matching with sum of square distances	1.9363526000000064	
Matching with normalized cross correlation	2.106211899999991	

Image1 size = 309 x 206 PX

Image2 size = 365 x 243 PX

Machine specifications (Laptop used):

- Processor: Intel CORE i5 7th Gen
- RAM size = 12 GB

3. SSD result

4. NCC result