Nombre: Edgar Javier Fregoso Cuarenta

Registro: 22310285

Materia : visión Artificial

Practica 11

Código:

```
import numpy as np
import cv2
import matplotlib.pyplot as plt
img1 = cv2.imread('opencv-feature-matching-template.jpg',0)
img2 = cv2.imread('opencv-feature-matching-image.jpg',0)
orb = cv2.ORB_create()
kp1, des1 = orb.detectAndCompute(img1,None)
kp2, des2 = orb.detectAndCompute(img2,None)
bf = cv2.BFMatcher(cv2.NORM_HAMMING, crossCheck=True)
matches = bf.match(des1,des2)
matches = sorted(matches, key = lambda x:x.distance)
img3 = cv2.drawMatches(img1,kp1,img2,kp2,matches[:10],None, flags=2)
plt.imshow(img3)
plt.show()
```

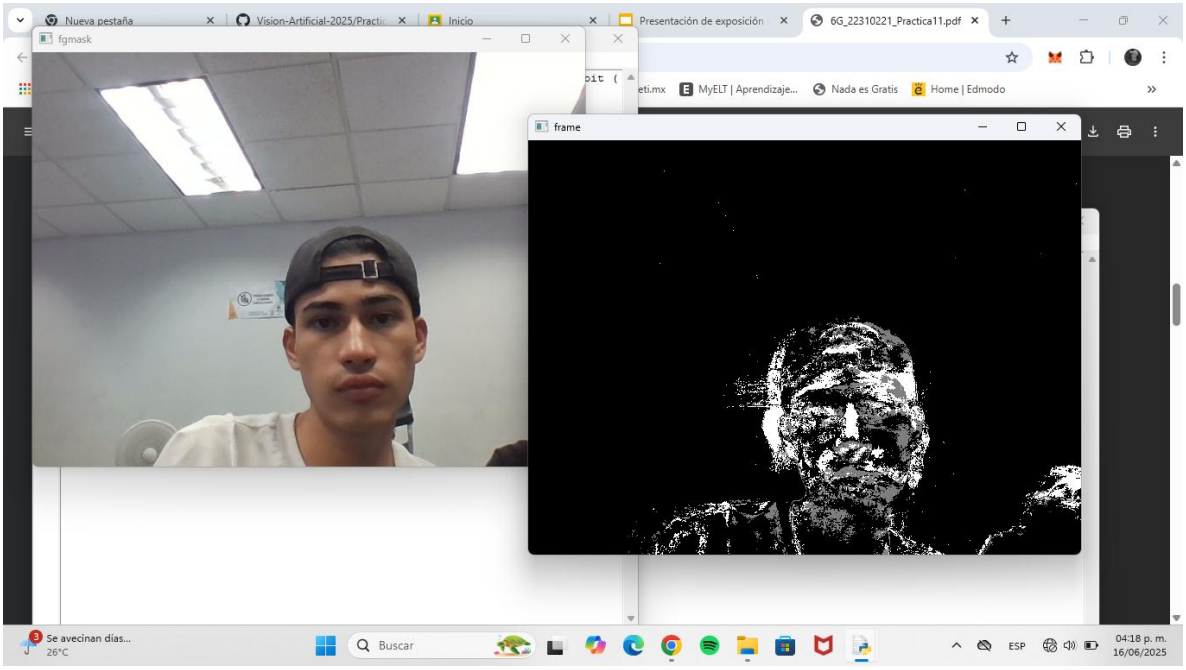
```
import numpy as np
import cv2
import matplotlib.pyplot as plt
img1 = cv2.imread('opencv-feature-matching-template.jpg',0)
img2 = cv2.imread('opencv-feature-matching-image.jpg',0)
orb = cv2.ORB_create()
kp1, des1 = orb.detectAndCompute(img1,None)
kp2, des2 = orb.detectAndCompute(img2,None)
bf = cv2.BFMatcher(cv2.NORM_HAMMING, crossCheck=True)
matches = bf.match(des1,des2)
```

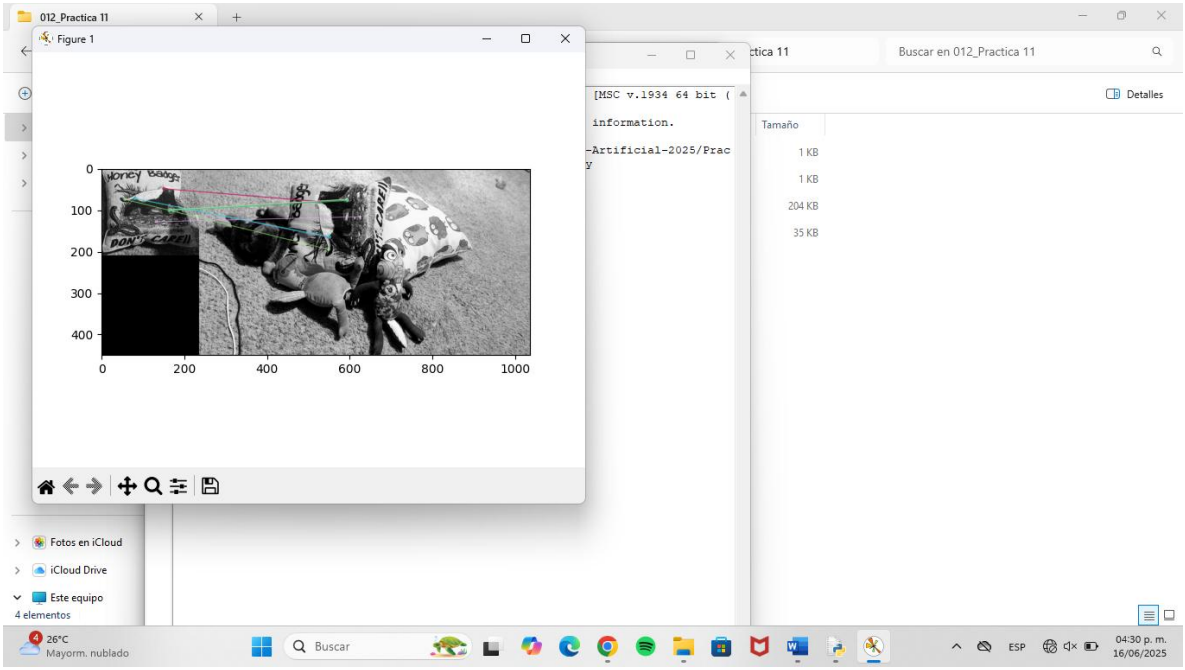
```
matches = sorted(matches, key = lambda x:x.distance)

img3 = cv2.drawMatches(img1,kp1,img2,kp2,matches[:10],None, flags=2)

plt.imshow(img3)

plt.show()
```




012_Practica 11
Figure 1
0
100
200
300
400
0
200
400
600
800
1000
[MSC v.1934 64 bit (
information.
-Artificial-2025/Prac
Buscar en 012_Practica 11
Detalles
Tamaño
1 KB
1 KB
204 KB
35 KB
Fotos en iCloud
iCloud Drive
Este equipo
4 elementos
26°C
Mayorm. nublado
Buscar
ESP
04:30 p. m.
16/06/2025