VISIÓN ARTIFICIAL

Práctica 11.Background Reduction

Ingeniería en Mecatrónica
6to semestre

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```python
import numpy as np
import cv2
#cap = cv2.VideoCapture('people-walking.mp4')
cap = cv2.VideoCapture(0)
fgbg = cv2.createBackgroundSubtractorMOG2()
while(1):
 ret, frame = cap.read()
 fgmask = fgbg.apply(frame)
 cv2.imshow('fgmask',frame)
 cv2.imshow('frame',fgmask)

 k = cv2.waitKey(30) & 0xff
 if k == 27:
     break

cap.release()
cv2.destroyAllWindows()
```

```python
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()
```