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Materia : visión Artificial

Practica 8

CODIGO:

```python
import cv2

import numpy as np


cap = cv2.VideoCapture(0)


while(1):

    # Take each frame
    _, frame = cap.read()
    hsv = cv2.cvtColor(frame, cv2.COLOR_BGR2HSV)


    lower_red = np.array([30,150,50])
    upper_red = np.array([255,255,180])


    mask = cv2.inRange(hsv, lower_red, upper_red)
    res = cv2.bitwise_and(frame,frame, mask= mask)


    laplacian = cv2.Laplacian(frame,cv2.CV_64F)
    sobelx = cv2.Sobel(frame,cv2.CV_64F,1,0,ksize=5)
    sobely = cv2.Sobel(frame,cv2.CV_64F,0,1,ksize=5)
    edges = cv2.Canny(frame,100,200)


    cv2.imshow('Original',frame)
    cv2.imshow('Edges',edges)
    cv2.imshow('Mask',mask)
    cv2.imshow('laplacian',laplacian)
```

```
cv2.imshow('sobelx',sobelx)

cv2.imshow('sobely',sobely)


k = cv2.waitKey(5) & 0xFF

if k == 27:

    break


cv2.destroyAllWindows()

cap.release()
```