Better tracking code: PESAUG17_ISEM_E

1 message

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```python
from collections import deque
import numpy as np
import imutils
import cv2
import time

greenLower = (12, 96, 186)
greenUpper = (179, 255, 255)
#greenLower = (8,100,100)
#greenUpper = (28,255, 255)

camera = cv2.VideoCapture(0)

while True:
        (grabbed, frame) = camera.read()
        frame = imutils.resize(frame, width=600)
        hsv = cv2.cvtColor(frame, cv2.COLOR_BGR2HSV)

        mask = cv2.inRange(hsv, greenLower, greenUpper)
        mask = cv2.erode(mask, None, iterations=2)
        mask = cv2.dilate(mask, None, iterations=2)

        cnts = cv2.findContours(mask.copy(), cv2.RETR_EXTERNAL,
                cv2.CHAIN_APPROX_SIMPLE)[-2]
        center = None

        if len(cnts) > 0:
                c = max(cnts, key=cv2.contourArea)
                ((x, y), radius) = cv2.minEnclosingCircle(c)
                M = cv2.moments(c)
                center = (int(M["m10"] / M["m00"]), int(M["m01"] / M["m00"]))

                if radius > 10:
                        cv2.circle(frame, (int(x), int(y)), int(radius),(0, 255, 255), 2)
                        cv2.circle(frame, center, 5, (0, 0, 255), -1)
                        a=int(x)
                        b=int(y)
                        r=int(radius)
                        print "x=",a, "y=",b, "z=",r


        cv2.imshow("Frame", frame)
        key = cv2.waitKey(1) & 0xFF
        if key == ord("q"):
                break
camera.release()
cv2.destroyAllWindows()
```

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