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import cv2 as cv
import numpy as np
import time
import TonboCamera
import alarmRequests

if __name__ == '__main__':

    tonboThermal = 'rtsp://192.168.2.233:8555/video1'
    cam_thrm = cv.VideoCapture(tonboThermal)
    tonby = TonboCamera.Tonbo()

    NumFramesPerPosition = 300
    # Scan
    #while 1:

        #Tonbo.setPanPos(camPositions[camPos_indx])
        #camPos_indx = (camPos_indx + 1) % len(camPositions)
        #time.sleep(1)
    tonby.setTiltPos(2.5)
    print('000000o00000')
    time.sleep(5)
    #print('YYYYYYYYYYYYYY')

    #for i in range(1):#NumFramesPerPosition):
    retThrm, frameThrm = cam_thrm.read()
    check = np.sum( frameThrm[ :, :, 0] > 65 )
    #cv.imshow('frm',frameThrm[:, :,0])
    #cv.waitKey(0)

    print(check)
    if check > 1:
        # Fire Detected From Thermal Camera
        FOVTHERMAL = 10
        indcs = np.argwhere( frameThrm[ :, :,0] > 65 )
        #indcs = np.where( frameThrm[ :, :, 0] > 55 )
        #indcs = np.argwhere( np.max( frameThrm[ 50:500, 50:650,0] ) )
        #indcs = np.argwhere( frameThrm[frameThrm.shape[0]//2,50:650,:] > 170 )
        columnMedian = [indcs[len(indcs)//2][0],indcs[len(indcs)//2][1]]

        while np.abs(columnMedian[0] - 288)>35:

            print(columnMedian[0] - frameThrm.shape[0]//2)
            print('aaaa')

            retThrm, frame = cam_thrm.read()
            print(retThrm)
            indcs = np.argwhere( frame[ :, :,0] > 65 )
            #columnMedian = [0,0]
            columnMedian = [indcs[len(indcs)//2][0],indcs[len(indcs)//2][1]]
            print(columnMedian)

            if (columnMedian[0] - 288)>35:
                print('bbbb')
                tonby.setTiltPos( tonby.getTiltPos() + .5 )
                time.sleep(5)
                tonby.stopAllAction()
            elif (columnMedian[0] - 288)<-35:
                print('ccc')
                tonby.setTiltPos( tonby.getTiltPos() - .5 )
                time.sleep(5)

            else:
                break

            tonby.stopAllAction()
            #time.sleep(8)
            #retThrm, frameThrm = cam_thrm.read()
            #indcs = np.argwhere( frameThrm[ 50:500, 50:650,0] > 170 )

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#indcs = np.argwhere( np.max(frameThrm[ 50:500, 50:650,:]) )
#columnMedian = indcs[indcs.shape[0]//2]
#print(columnMedian)
#time.sleep(2)
#Lat, Long = Tonbo.getCoordinates( 1, (Tonbo.getPanPos() + FOVTHERMAL*(360 - columnMedian)/(670 -
25))%360)
#Lat, Long = tonby.getCoordinates( 1, Tonbo.getPanPos() )
print("Fire.....")
```