CSCI5561, du000078@umn.edu, Haoyuan Du, 5500151

HW2 Write up

男人站在镜子前自拍

低可信度描述已自动生成

This is the SIFT image created by python cv2 library.

男人戴着耳机

中度可信度描述已自动生成

This is the result of SIFT feature matching, we can see some error matches.

After I use affine transform with RANSAC to filter the matches, I get the warp image like this: 男人戴着眼镜

描述已自动生成

一群人的照片

描述已自动生成

The images above are the result of using Inverse Compositional Image Alignment. From the error maps, we can see some red areas which mean errors. The error line is like this: 图表, 折线图

描述已自动生成 The error rate is decreasing fast at first then becomes slower. 图片包含 照片, 不同, 窗户, 男人

描述已自动生成Finally, after the multiframe tracking, I get this image. We can see the red boundary box is moving when Dr. Park is tilting his head.