CSCI5561, du000078@umn.edu, Haoyuan Du, 5500151 HW2 Write up



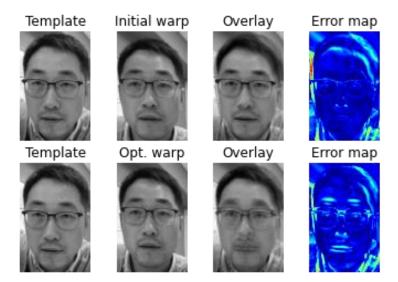
This is the SIFT image created by python cv2 library.



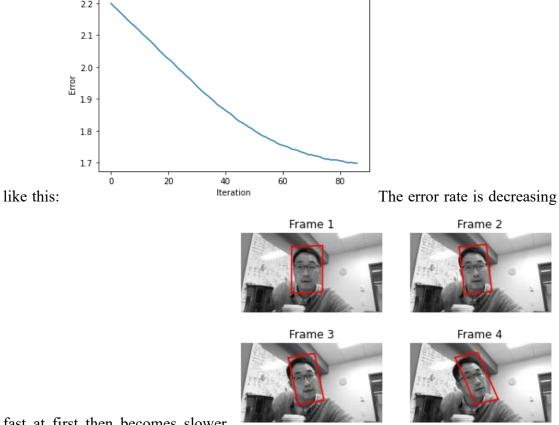
This is the result of SIFT feature matching, we can see some error matches. After I use affine transform with RANSAC to filter the matches, I get the warp image



like this:



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



fast at first then becomes slower.

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.