

CSCI 5561: Assignment #2

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I ran the code with no scaling of Δp and with a threshold of 0.01 on Δp to get the below results, it took about ~5 minutes to run on my laptop. I have updated the code to step by $5 \cdot \Delta p$ and increased the threshold to 0.05 to make the code run faster (~1 minute) for evaluation it still produces almost similar results.

Below are the results that I obtained from my code (threshold=0.01 & time taken ~5 minutes):

1. SIFT feature Matching :



2. Feature based Image Alignment :



3. Image Warping :

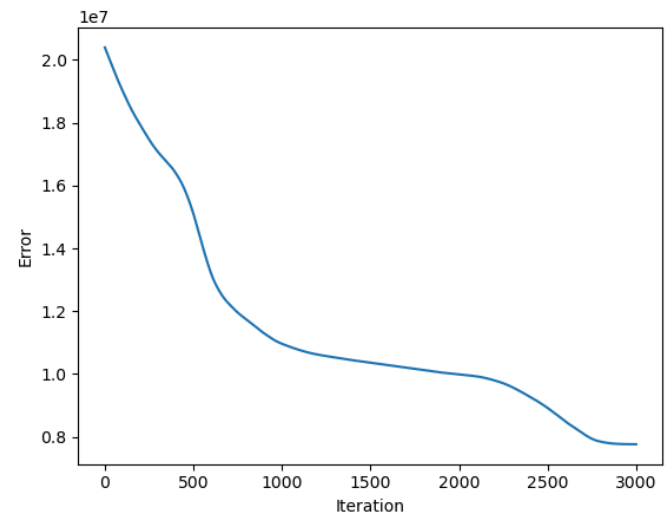
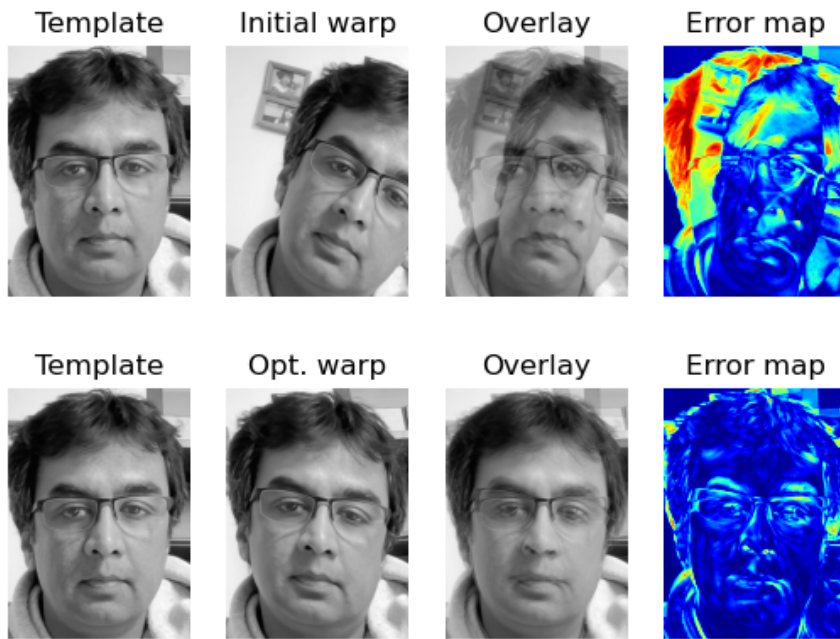
a. Warped Image



b. Error Map



4. Inverse Compositional Image Alignment : (Result after ~3000 iterations)



5. Multiframe Tracking :

