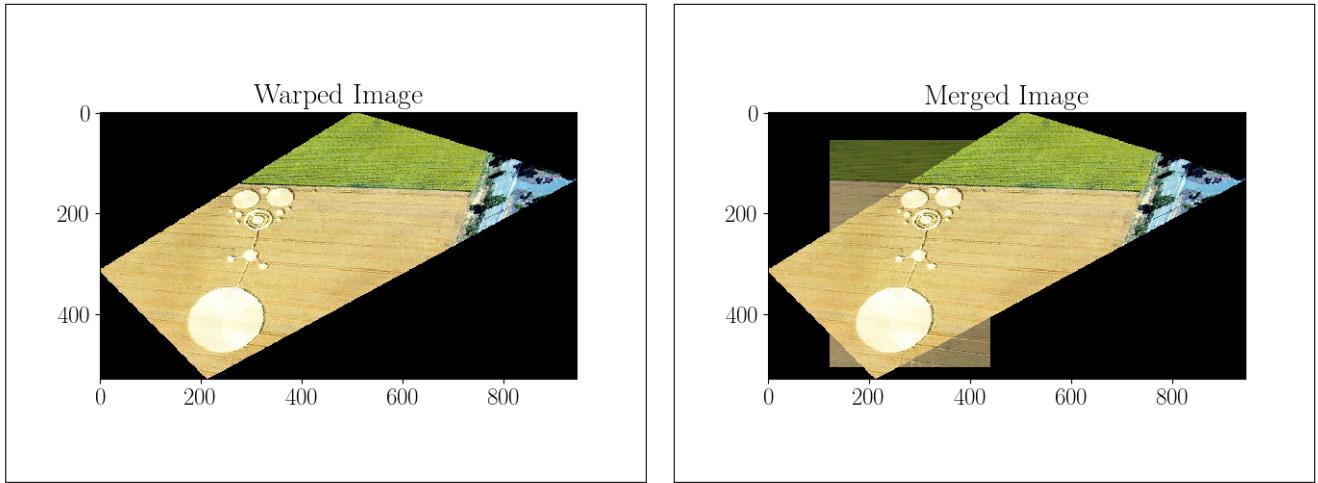


CS 6476 - Computer Vision

Problem Set 2

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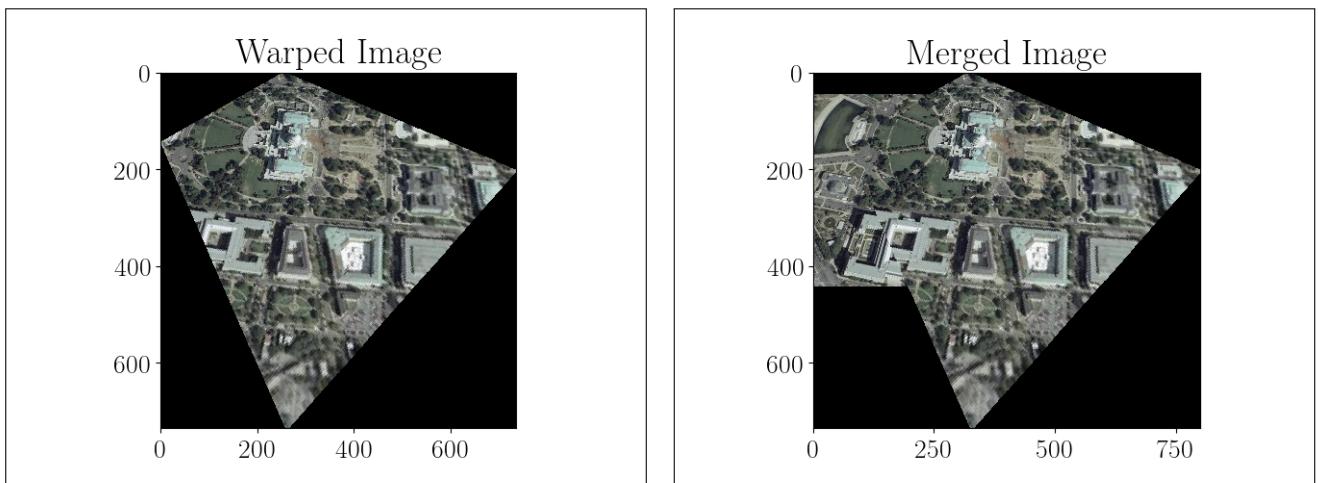
Problem 4



(a) Warped Image

(b) Merged Image

Figure 1: Warped and Merged Images for Pair 1



(a) Warped Image

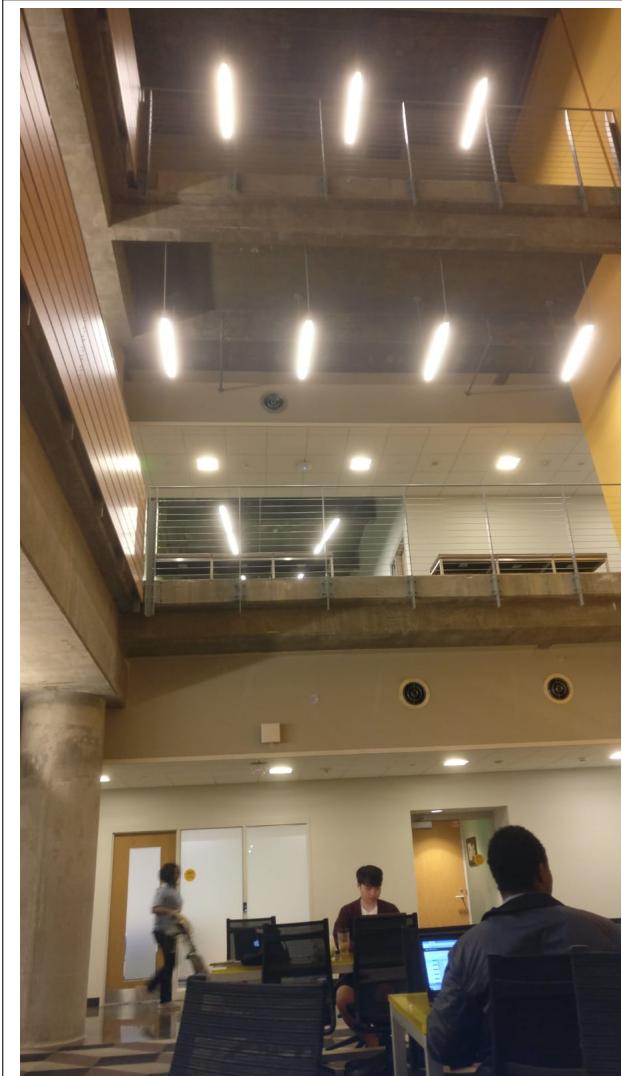
(b) Merged Image

Figure 2: Warped and Merged Images for Pair 2

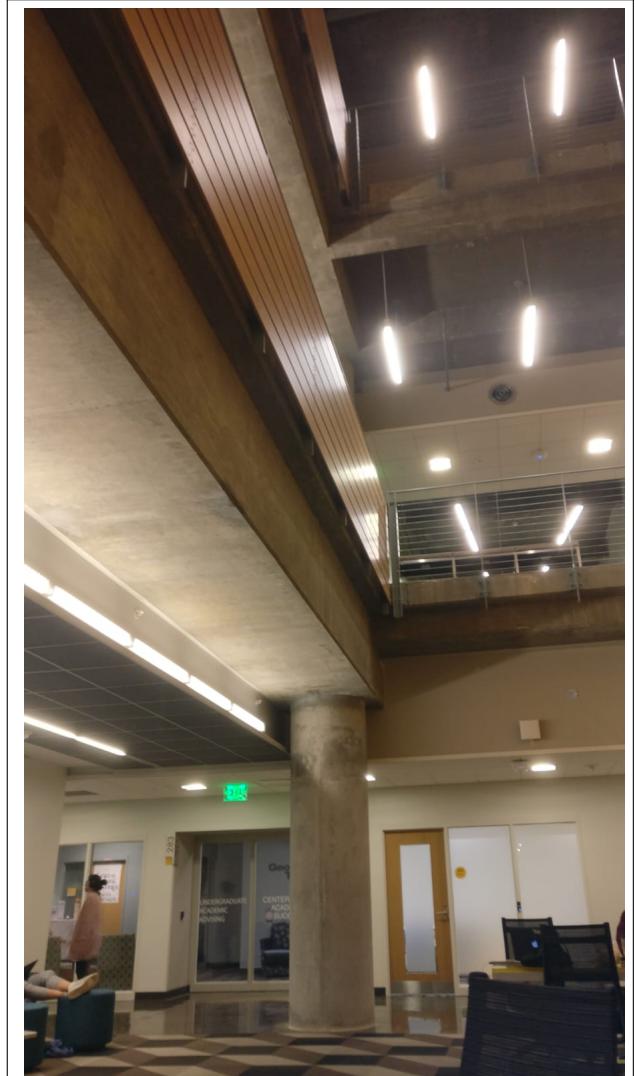
Note. A slight misalignment observed in the merged image of figure 2b is due to an error in exact correspondence point matching. This can be overcome by using more precise input methods.

Problem 5

Input Images



(a) Input Image



(b) Reference Image

Figure 3: Input Images for Mosaic Generation

The set of images comprises of a large vertical field of view but limited horizontal field of view. The resultant mosaic is intended to create a new image that preserves the large vertical field of view found in both the images but also improve the horizontal field of view.

Results

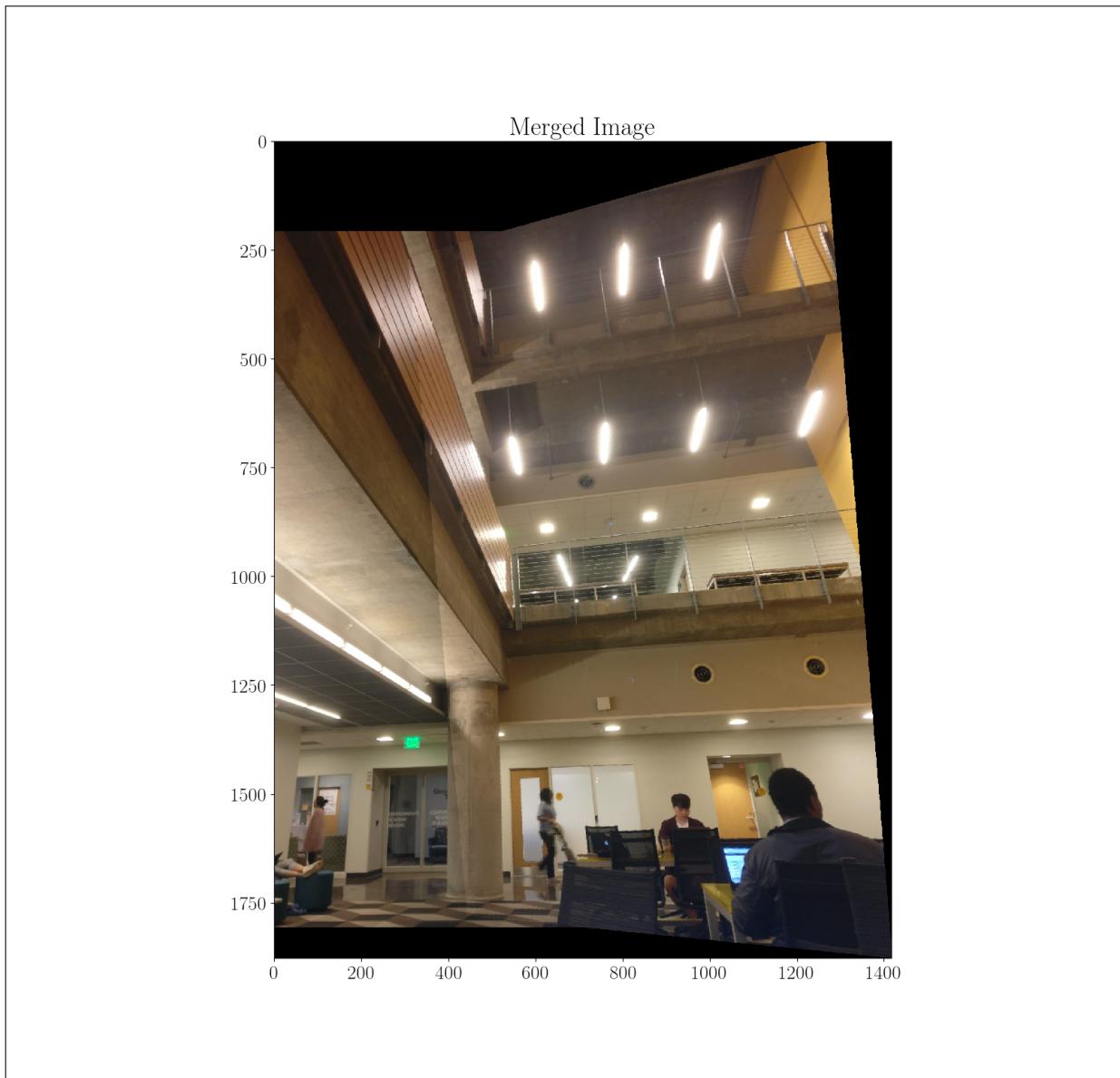
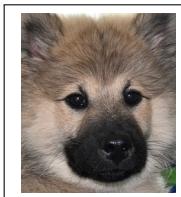


Figure 4: Generated Mosaic

Problem 6

Input Images



(a) Input Image (The Subject to be overlaid on poster)



(b) Reference Image (The Poster)

Figure 5: Input Images for Warp Framing

Results



Figure 6: Generated Mosaic

Appendix

Verify Homography Computation [computeH(t1, t2)]

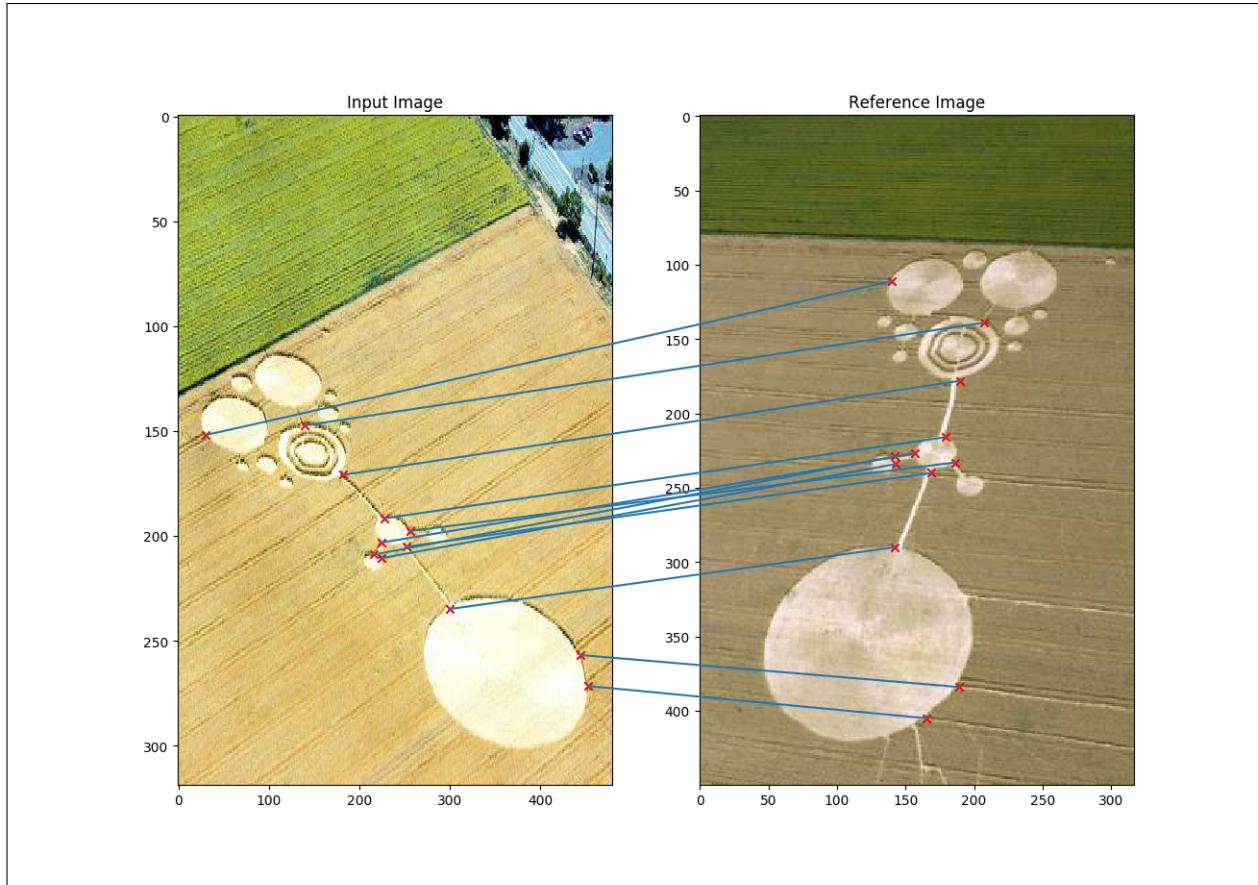


Figure 7: Correspondence Points between Input and Reference computed via Homography Matrix