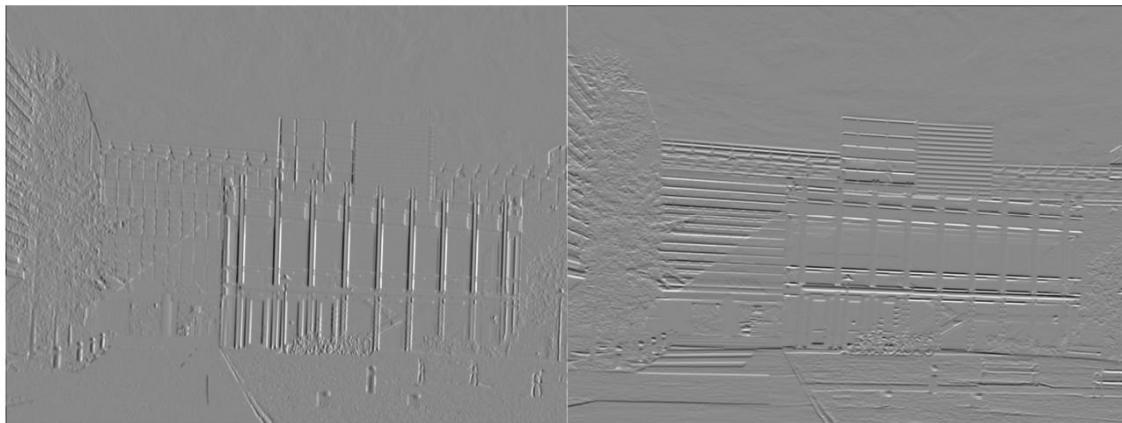


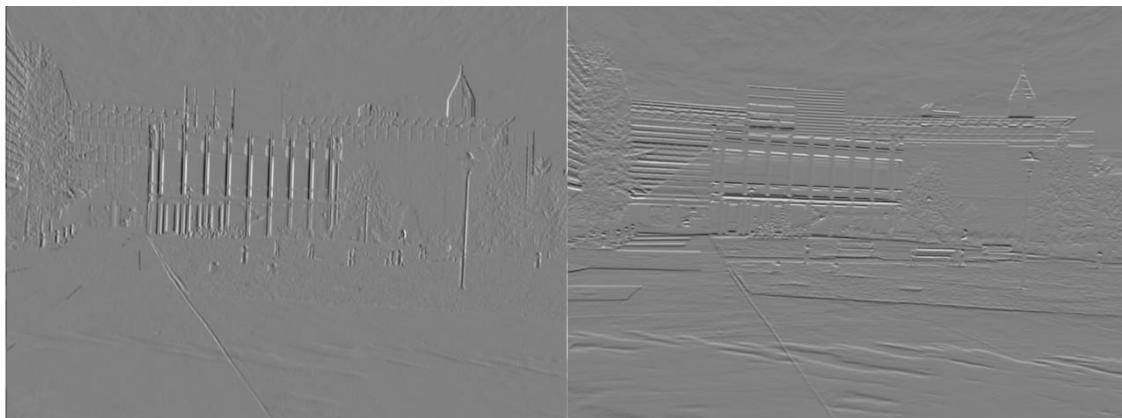
Problem Set 4 - CS4495 (Fall2014)
Cristina Chu (cchu43)

Part 1: Harris Corners

1.1 Calculating X and Y gradients

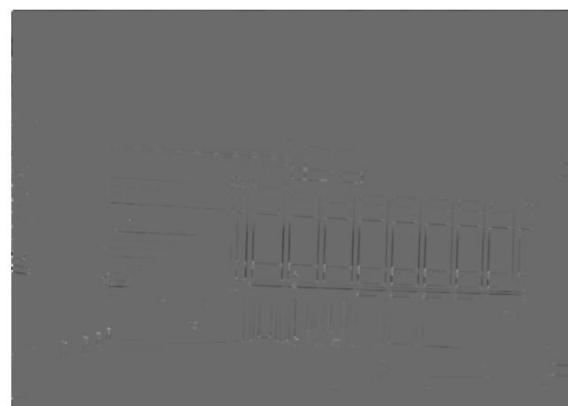


Output of transA.jpg

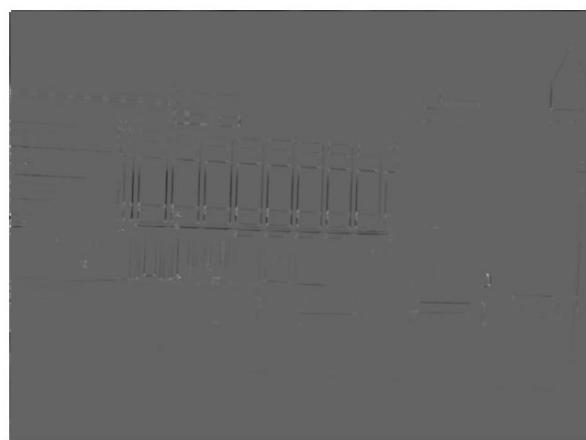


Output of simA.jpg

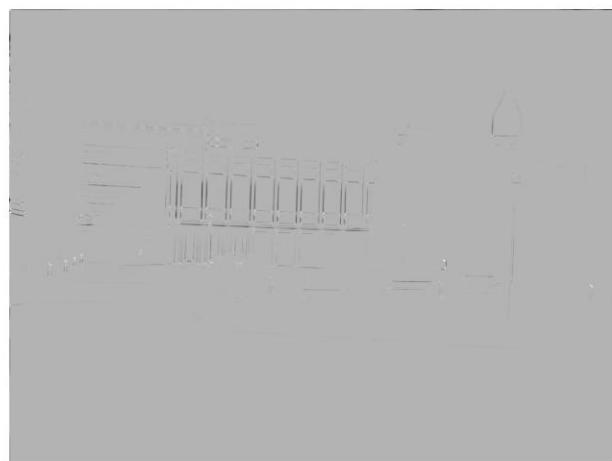
1.2 Computing Harris Values



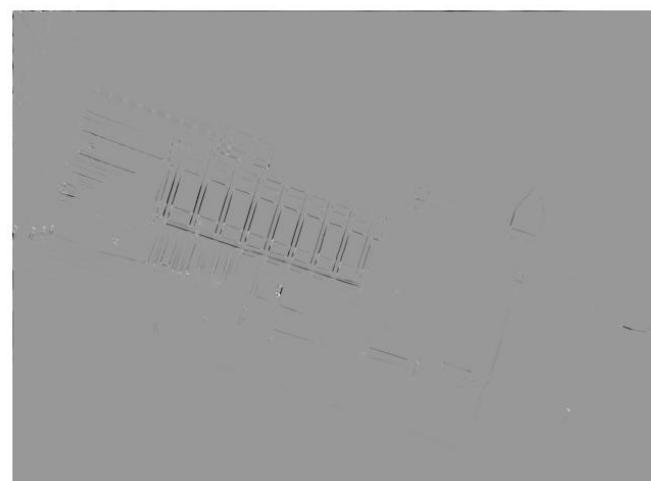
Output of transA.jpg



Output of transB.jpg

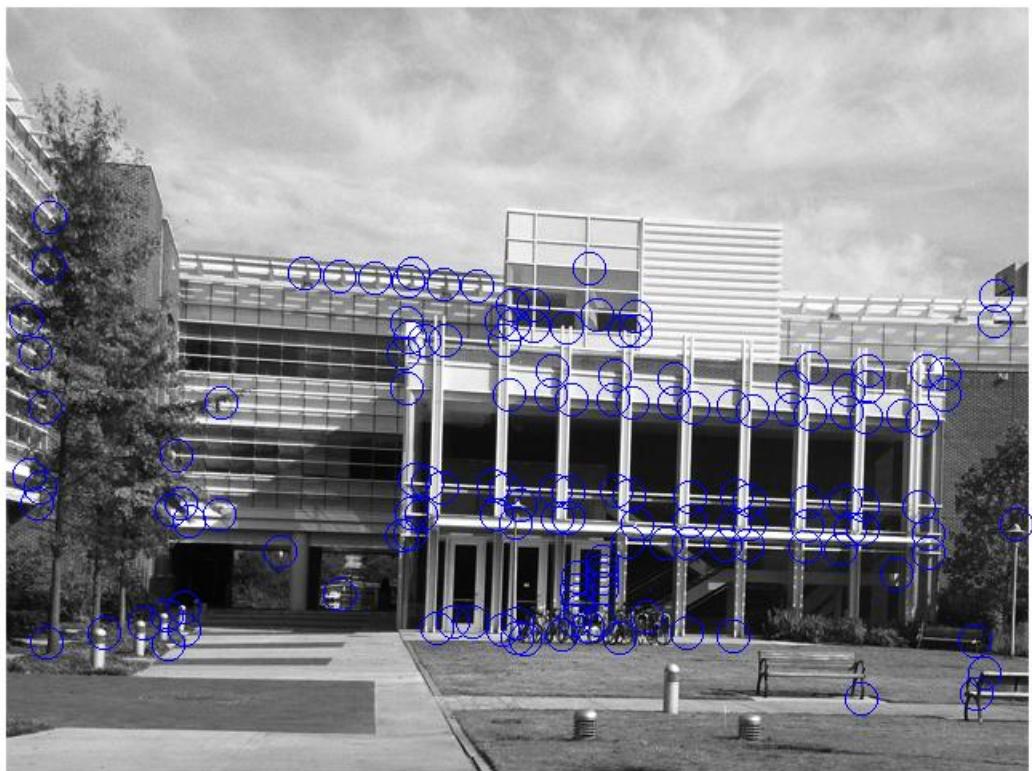


Output of simA.jpg



Output of simB.jpg

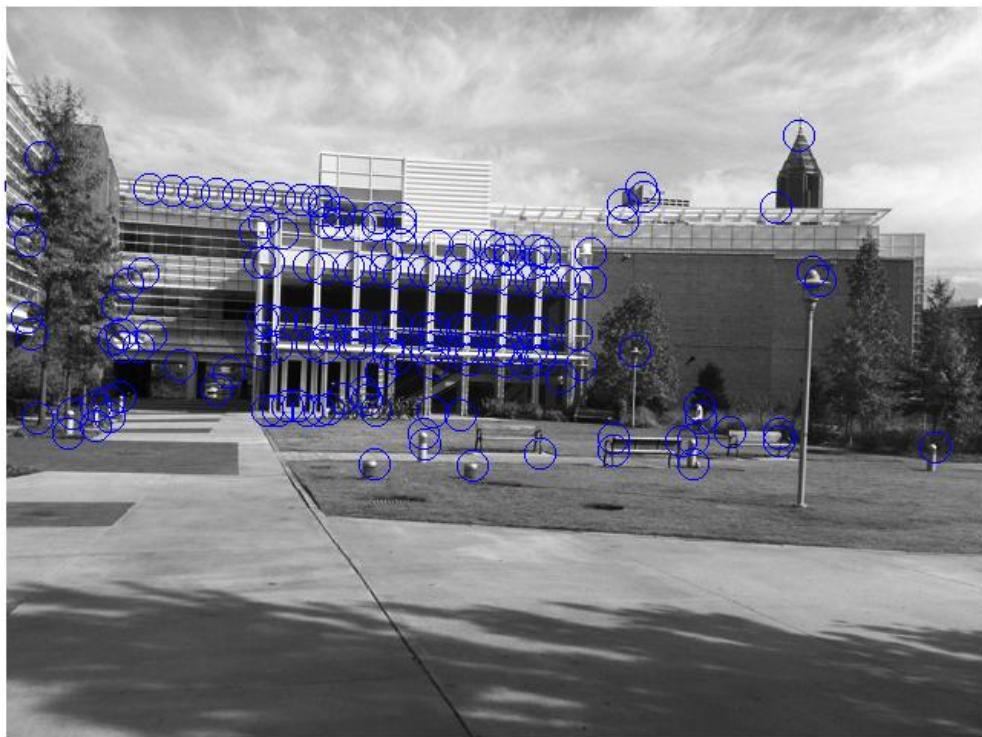
1.3 Threshold and non-maximal suppression



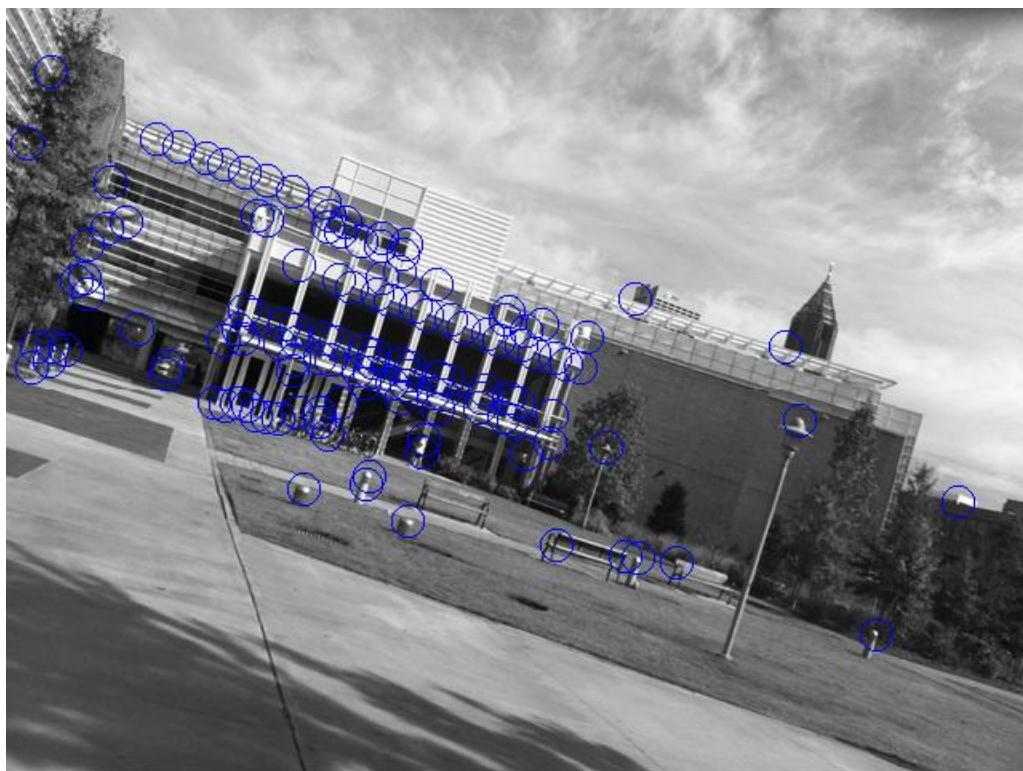
Output for image transA.jpg



Output for image transB.jpg



Output for image simA.jpg

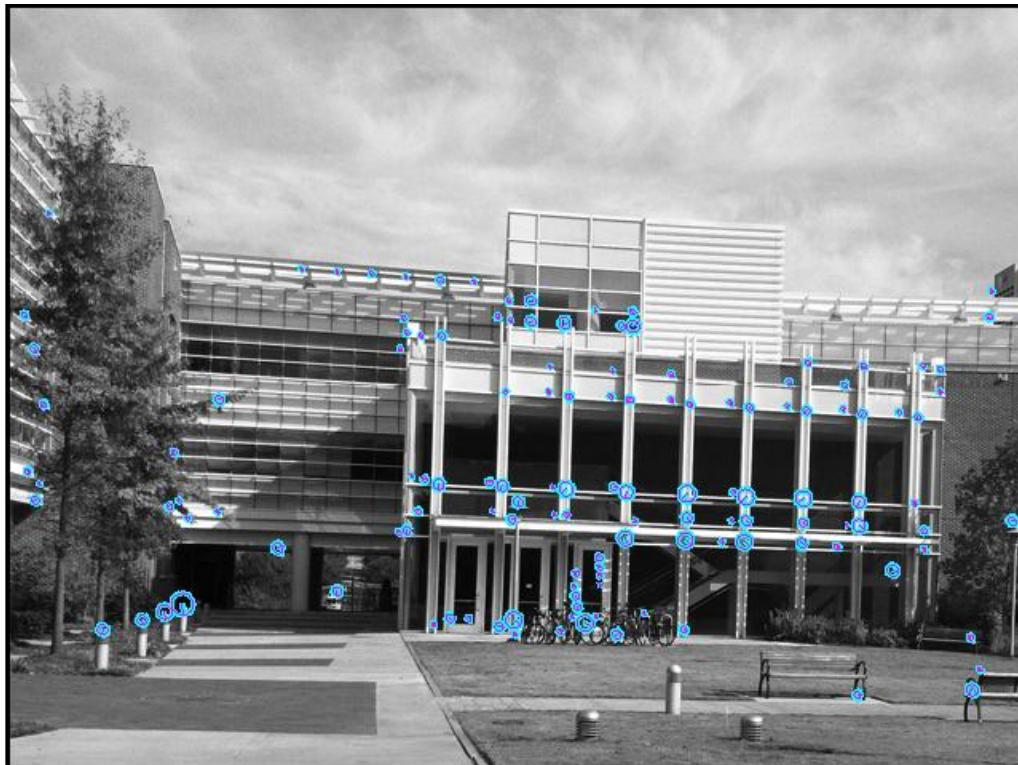


Output for image simB.jpg

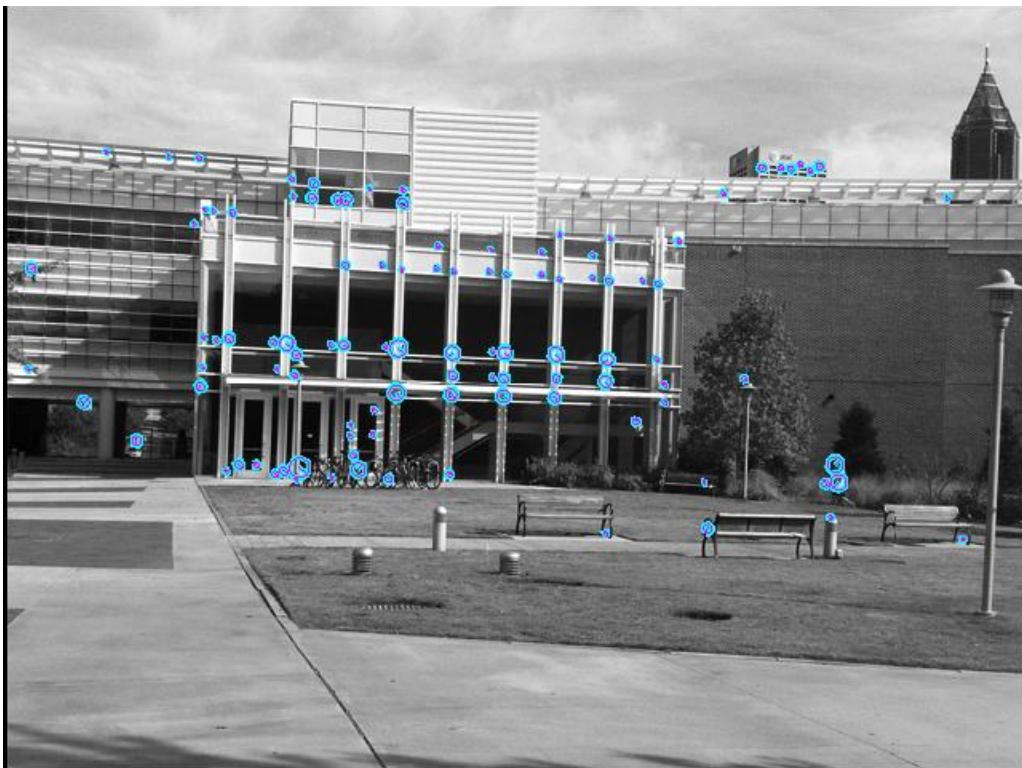
One surprising corner that did not appear was the corners of the square building. I would have thought it was a very good corner, but it didn't show up in any of the pictures.

Part 2: SIFT features

2.1 Computing angle and drawing points



Output for image transA.jpg



Output for image transB.jpg



Output for image simA.jpg



Output for image simB.jpg

2.2 Putative-pair-images

Plotting the second image's points correcting was not working and I couldn't figure out how to fix it. Also, it seem to work well with images simA and simB, but not with images transA and transB.

I suspect some mislabeled variable that threw off the calculations. I didn't have time to fix it though.

