COMP5421 Project 2 Panorama Stitching

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Algorithm:

1 Take a series of images with the same camera and order them by filename 0/1/…/9.jpg

2 Warp images to spherical coordinate system

3 Choose the first two images, image1 and image2

4 Compute the SURF features in image1 and image2

5 Match features between image1 and image2

6 Calculate the average translation between image1 and image2

7 Align image1 and image2 using RANSAC (homography\_main.cpp)

/ Align image1 and image2 using the average translation calculated in last step (main.cpp)

8 Let the result image be image1 and let the next image be image2, go back to step 4.

The dataset used is in the folder “dataset”. The result image is as below:

