Weekly Report

Adviser: Prof. Yang Wen Student: Cheng Wensheng Period: 2018.6.24-7.1

Abstract—This week I mainly put my effort on processing SAR data of Shanghai.

I. DATA PROCESS

OR this SAR contest, since the contest committee hasn't launched the training decision. launched the training data, we need to label some data manually. We already have the SAR data of Shanghai City, considering future project of change detection, so we plan to label this.

Basically, we have the SAR data of Shanghai City in December, 2013. With Google Earth software, we can get corresponding optical satellite image at the same time. With the help of optical image, we can label SAR data accurately.

However, to map the SAR data region to corresponding optical image on Google Earth, we need to geocode the SAR image first. The point of view of SAR image is different with that of optical image, so we need to calibrate it to optical image and change its coordinates to the latter. After this, we can split the SAR and optical image with the same manner, then it's feasible to label smaller SAR images with pairwise optical reference images.

Peng Rui has learned the method of calibration, but he said that he lacks some primitive SAR data of Shanghai City to do geocoding. And we think Prof. Yang could have these data, so we'll continue our labeling work after we get these data for geocoding.

Fig. 1 is Shanghai City image in the software.

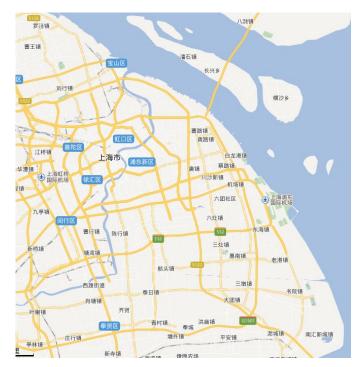


Fig. 1: Shanghai City image in the software.