

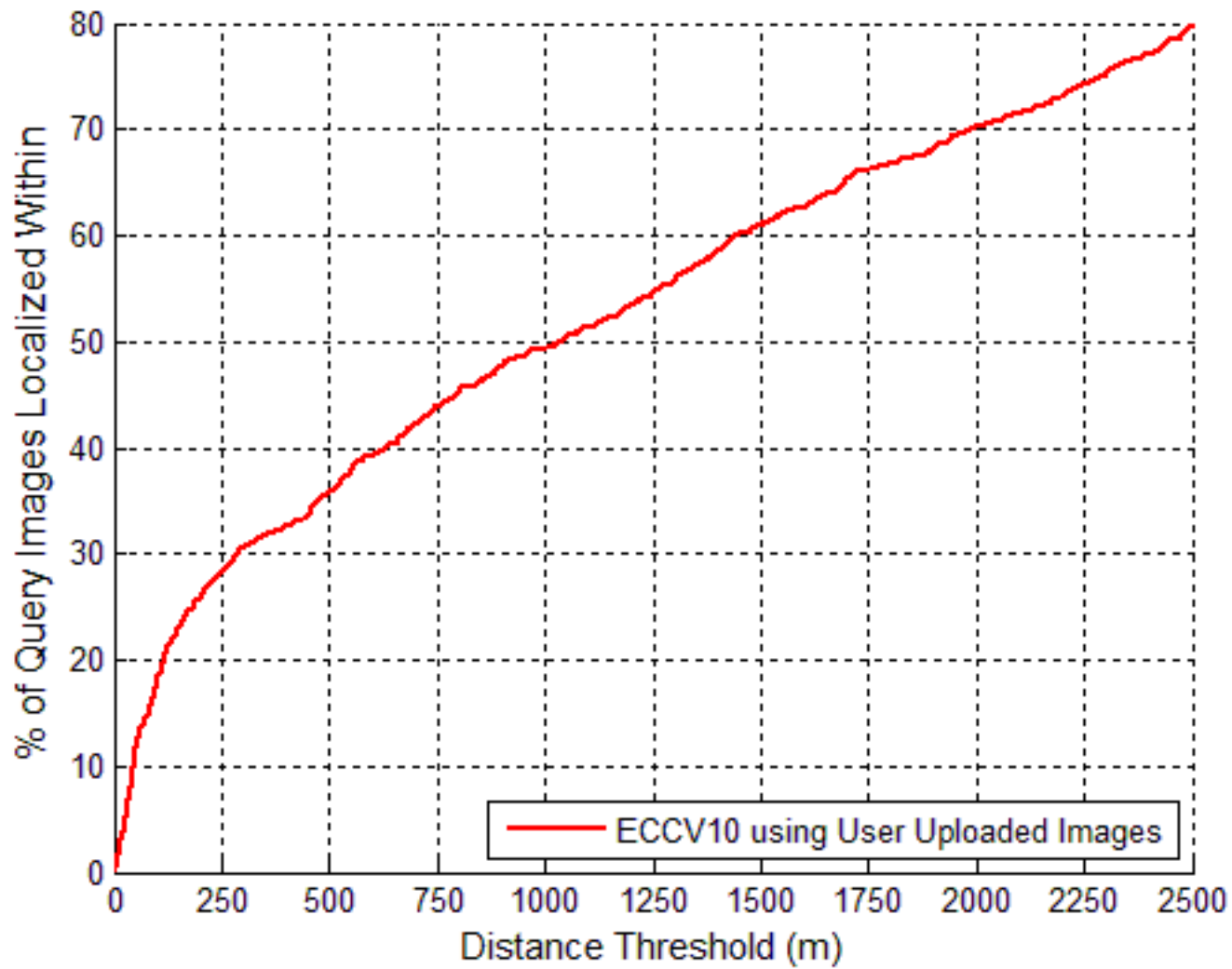
Improving Image Geotags

Week 8
Corey Pittman



Search area for Moscow

Moscow Results without Filtering



Query Number=111



Err=50.51m



Query Number=122



Err=25.78m



Query Number=162



Err=126.2m



Query Number=926

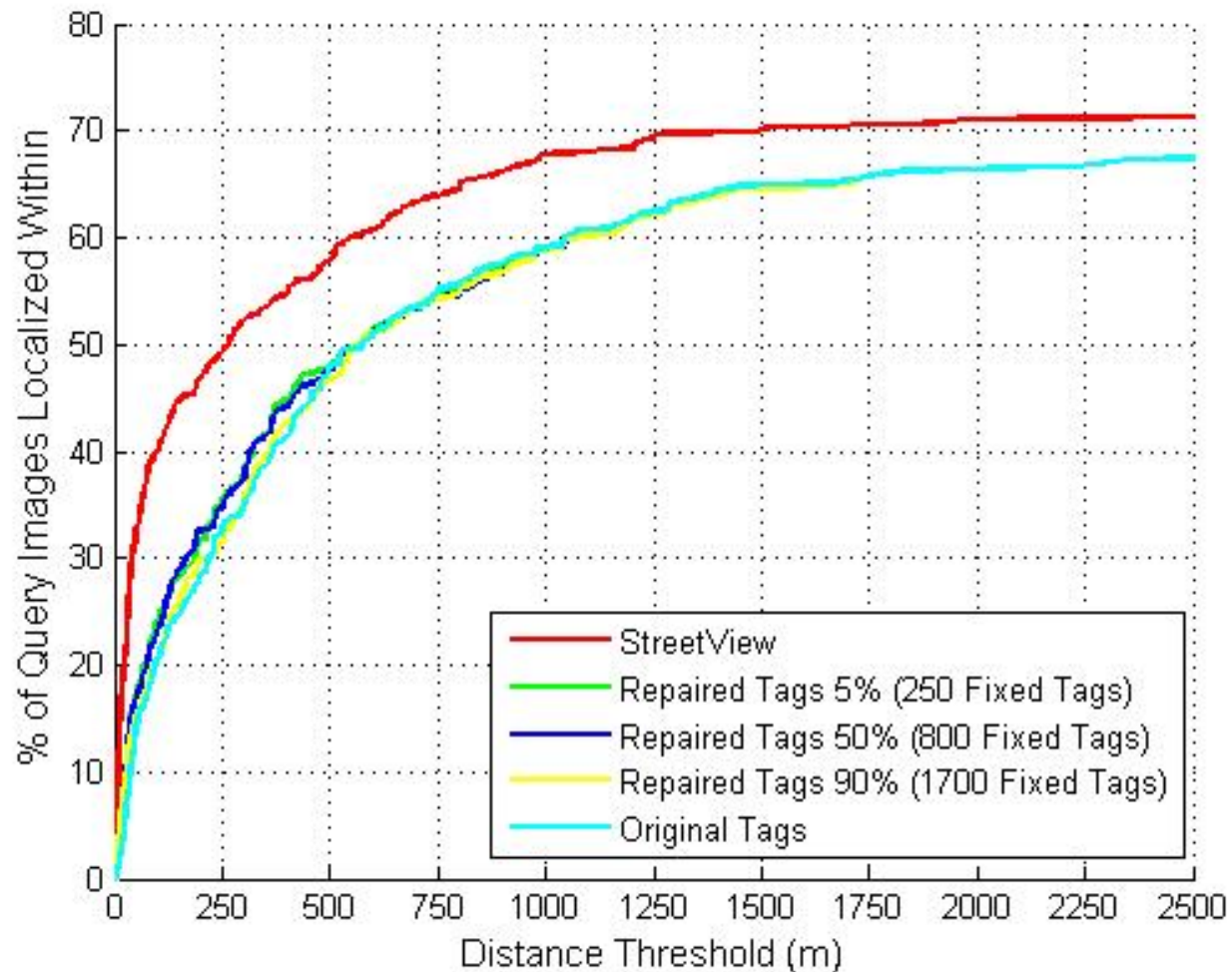


Err=960.8m



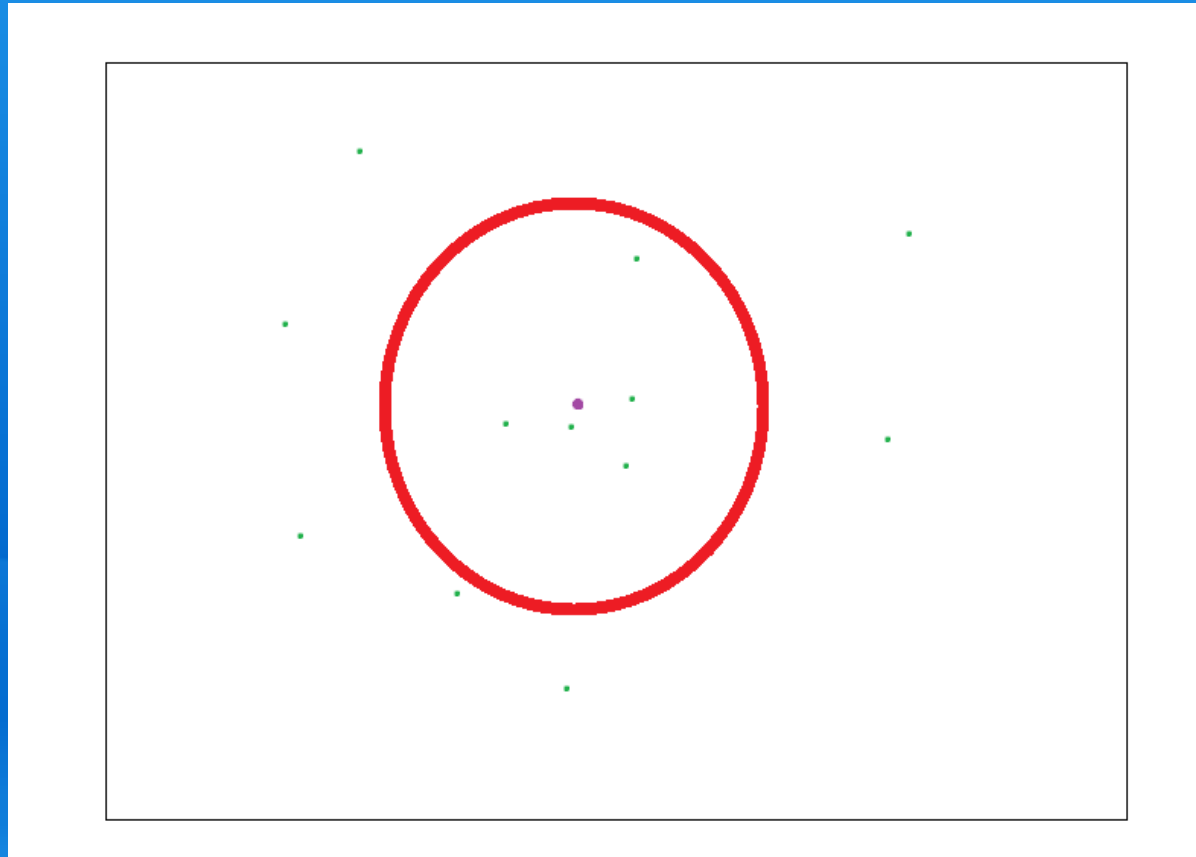
Repairing Tags

- Tried using more tag replacements.



Outlier Removal

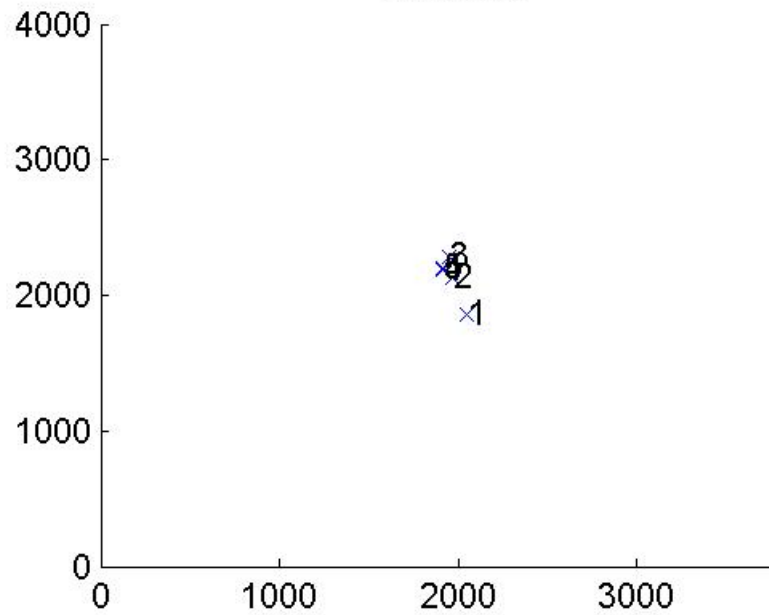
- In order to cluster images properly, outliers must be removed.
 - Calculate the 3 dimensional median of the NNs.
 - Calculate Z-Scores for each and remove those with $z > 2$



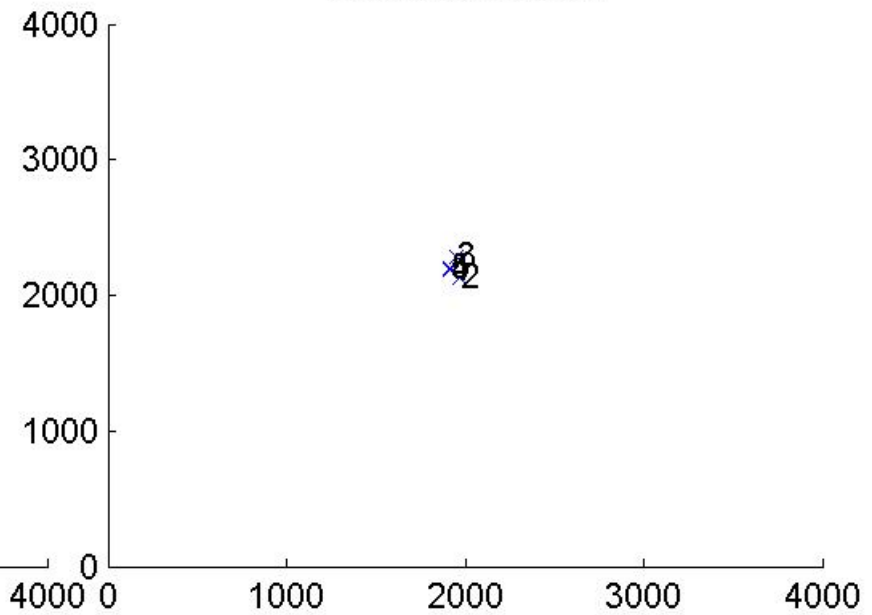
Current Image = 214



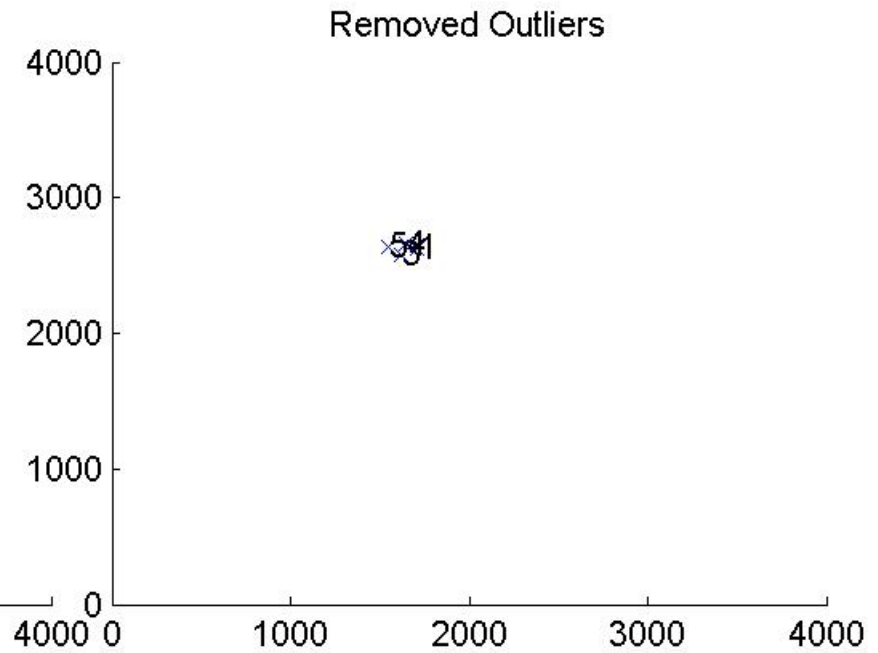
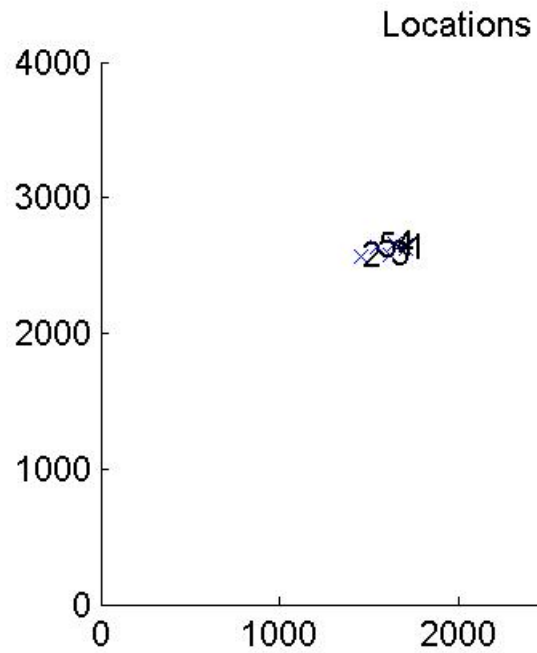
Locations



Removed Outliers



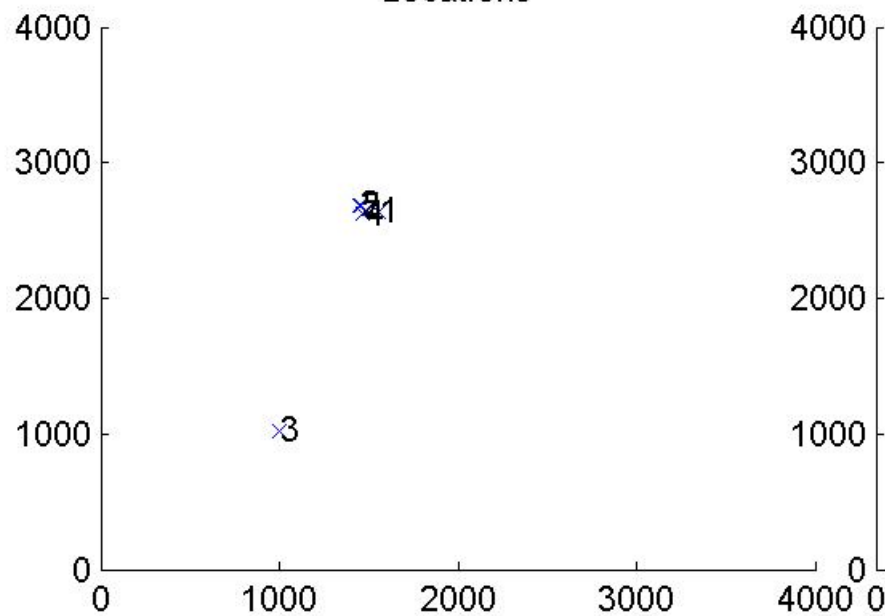
Current Image = 1613



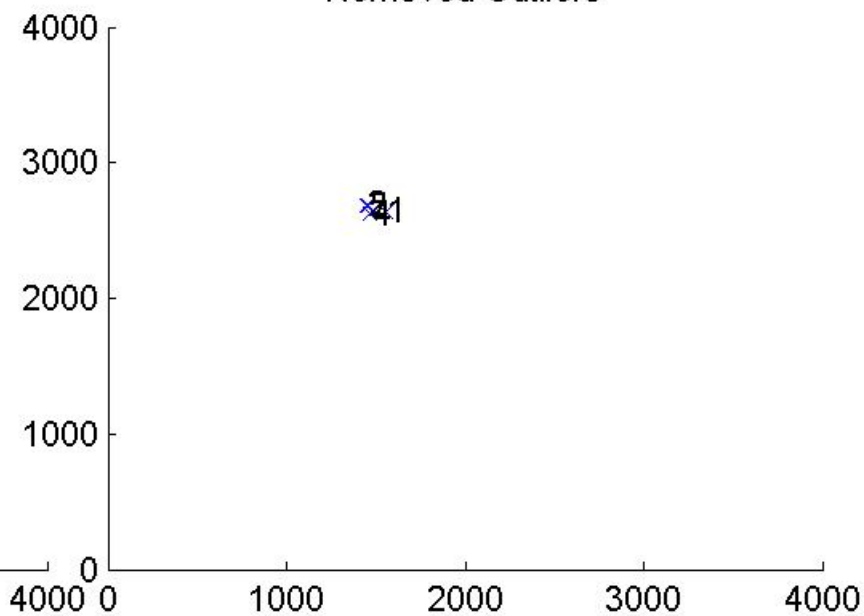
Current Image = 1618



Locations



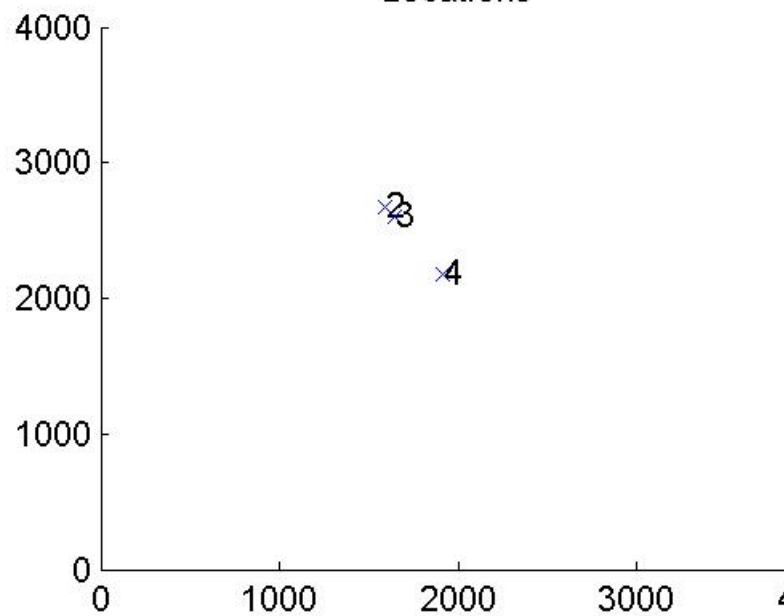
Removed Outliers



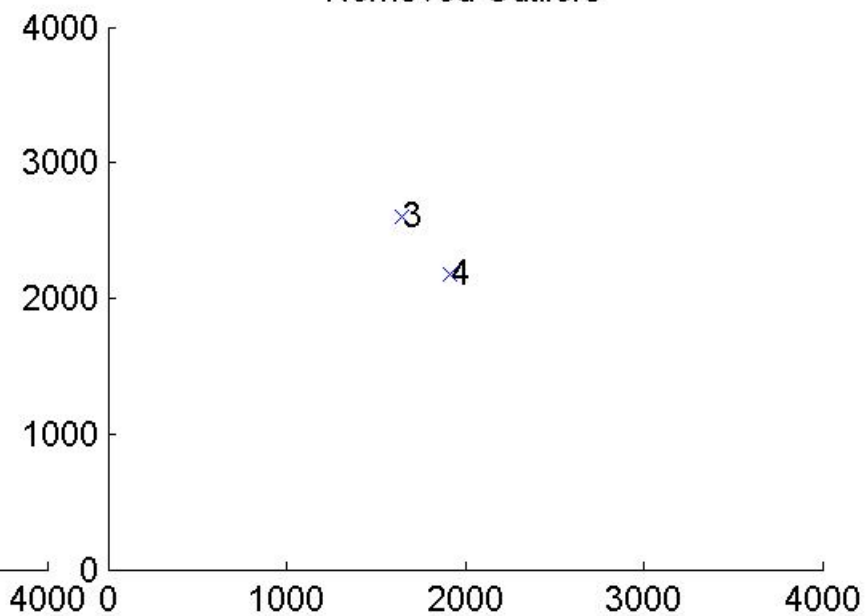
Current Image = 3999



Locations



Removed Outliers



Next steps

- Clustering using MeanShift (Related to coordinates)
- Clustering using relative geometry of cameras