Meeting 15.05.2017

Monday, 15. May 2017 10:16

Tom:

- Are there mislabels?
  - Some
  - Cloudy e.g.
- What methods?
  - Putting pipeline together
  - Everybody tries some script from discussion board
    - Some with jpgs, some with tifs
  - But given scripts resize heavily
    - Problem with roads, river, blooming
  - So now we want to have higher resolution
  - Ensemble
  - And also make clsfr for coarser classes divisions, weather e.g.
  - Find some good papers about multiclass labeling on satellite images
  - Look for paper with different approaches because 'it's a course and you have to show that you can incorporate things'
  - We have conditional probabilities, maybe makes prior harder
  - Can we recognize which part of the image gave us the label?
    - Then we could see if that label is given to the same feature
    - Delete one?

Points on discussion board

- label correlation: I think this is very important and maybe one of the key to get top results. For example, all blooming must have primary (but the reverse is not true) . It may be smarter to train classifiers in some hierarchy order , e.g. first determine the images based on weather classes and then for each weather class, train separate classifiers for land uses. I.e. the land classifiers for clear is different for hazy or partly_cloudy. You probably have to read some paper on how to exploit label correlations to improve your results.