**Structure:**

1. **Overview:**
   1. RGB to gray scale image
   2. Segmentation
      1. Watershed
   3. Feature vectors: From manually annotated points
      1. Color
      2. Gradient
      3. Number of pixels in regions
      4. Position of regions
      5. Texture
   4. Classification:
      1. Train: 80% pictures
      2. Validation: 10 Cross-fold validation on train set (34% pictures every iteration)
      3. Test: 20%
      4. Classifier: ???
         1. Parameters: ???
2. **Feature extraction:**
   1. Color: Accessing the RGB matrix
   2. Gradient: ??
   3. Number of pixels in regions: Regions identified by ID, count of pixels with same ID
   4. Positions regions: Computation of region centroid
   5. Texture: range filter
3. **Classification results:**
   1. TP/TN/FP/FN averaged evaluation (type I/II errors) for each element on all images and on average for all elements
   2. ROC curves
   3. Limitations