

ECE/CSE 576

Assignment 4

Course Project

Spring 2019

Recognition/Detection Project

- Groups 1-3 except by special permission
- Proposals (email) due Wed May 15
- Status Reports (Canvas) due: May 29
- Posters: June 5 1-3pm
- Final Reports due: June 10

Options

1. Implement a method from a recently published paper
 2. Design your own method
- Must use machine learning.
 - Must be about recognition or detection.
 - Can be on public data sets.
 - Can be on your own data set.
 - Must be approved by Dr. Shapiro or Bindita. Send proposals to both; we will discuss.
 - Contents of proposal are specified in the assignment.

Project Ideas

- Face/Pedestrian/Vehicle recognition
- Tracking by detection
- Object re-identification
- Product description
- License plate recognition
- Human pose/hand gesture recognition
- Object Instance recognition
- Cancer biopsy diagnosis
- Objects or classes from online databases

Final Report Requirements

- Title and team members
- Short intro
- Related work, with references to papers, web pages
- Technical description including algorithm
- Experimental results
- Discussion of results, strengths/weaknesses, what worked, what didn't.
- Future work and what you would do if you had more time