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