Assignment 5

18-798 IVM

Due: Oct. 10, Thursday, 2013

Total Score 125/100. You may complete all or select some.

Problems

1. (25%) Read thirty frames from a video file. Create thirty thumbnails in one image.

2. (25%) Add a red box to a sequence of images and write to a video file.

3. (25%) Draw your daily activities in symbols and compose thirty images. Write the thirty images to a video file to animate the sequence. Adjust the frame rate or duplicated frames to make an impressive visualization.

4. (25%) Extract moving objects from a video using Approximate Median filter and a Frame Difference filter. Compare results.

5. (25%) Based on the results of Problem 4, plot the contours for the extracted objects.