Computer Vision SBE 404

Project 2: Edge and boundary detection (Hough transform and SNAKE)

Due time: Thursday, March 21st 2013, 11:59 pm

For given images (grayscale and color)

A) Tasks to implement

1) For all given images; detect edges using Canny edge detector, detect lines and circles located in these images (if any). Superimpose the detected shapes on the images.

2) For given images; initialize the contour for a given object and evolve the Active Contour Model (snake) using the greedy algorithm. Represent the output as chain code and compute the perimeter and the area inside these contours.

B) Report all of the above to TA's (One Zip file including report, codes, results, etc).