Image Processing and Computer Vision (MPHY39600/CS35600) (Kenji Suzuki)

Problem Set 7 (Due: the class after the next class)

Solutions should include relevant images and original code (written in your favorite computer language, e.g., C, C++, Matlab, IDL, etc.) of the algorithms developed, along with any discussion requested. All the images are on the Chalk website at http://chalk.uchicago.edu and in the uncompressed TIFF format.

(1) The Fourier Snake as described in the lecture, Pattern and Shape Analysis 3, works when the underlying images are grayscale images, even though it assumes only a binary *a priori* model. How? Hint: What will the value of the cost function, H, be when a grayscale image is used for I?