Project #6

assign June 1, 2020 due June 7, 2020

Consider the gray-scale image**, image-pj6(Canny).tif** below, apply Canny edge detection algorithm to obtain the edge image by using the following setup and parameters:

- σ of Gaussian smoothing filter: 0.5% of the shortest dimension of the image
- Sobel operator for computing gradient vectors
- Hysteresis thresholding: $T_H = 0.10$ $T_L = 0.04$

Your report (Word or pdf format) should contain:

- Source codes (30%)
- Figures of the gradient magnitude and gradient angle images (30%)
- Figures of $g_{NL}(x,y)$ and $g_{NH}(x,y)$ (20%)
- Figure of final edge map (20%)

Note: Images must be plotted with good resolution (at least 12cm×12cm).

Upload your report to new e3 before due time!