

Syracuse University
Department of Electrical Engineering and Computer Science

CSE 400/691 Image and Video Processing
Spring 2020

Assignment II

EDGE DETECTION

- 1) Implement the following three steps of the Canny edge detection algorithm as we discussed in the class:
 - i) [25%] CANNY_ENHANCER
 - ii) [25%] NONMAX_SUPPRESSION
 - iii) [25%] HYSTERESIS_THRESH
- 2) [15%] Test your algorithm on images “Flowers.jpg”, “Syracuse_01.jpg” and “Syracuse_02.jpg”. Try different values of σ (the standard deviation of the Gaussian), τ_l (lower threshold) and τ_h (higher threshold). Compare and evaluate your results.
- 3) [10%] Test your algorithm on a favorite image of yours.