Digital Image Processing

Fall 2021

**Assignment #7**

**1. Global Thresholding**

(a) Write a global thresholding program in which the threshold is estimated automatically using the procedure discussed in Section 10.3.2. The output of your program should be a segmented (binary) image.

(b) Download Fig. 10.38(a) and apply your program to it. The result should be the same as in Example 10.15.

**2. Optimum Thresholding**

(a) Implement Otsu's optimum thresholding algorithm (Section 10.3.3).

(b) Download Fig. 10.39(a) from the book web site and use your global thresholding program and your implementation of Otsu's algorithm to produce the results in Figs. 10.39(c) and (d).