**SCS4207 – Image Processing and Vision**

**Assignment 2 - Image Binarization**

Implement the following three image binarization techniques using Open CV or MATLAB and present the results in document form. You may use the built in functions in those systems. Discuss the following three approaches comparing the results.

1. Global Thresholding
2. Adaptive Thresholding
3. Otsu Method

Present two more binarization techniques given in the literature with mathematical details.

<http://web-ext.u-aizu.ac.jp/course/bmclass/documents/otsu1979.pdf>

In Otsu method the objective is to find the t value (threshold) which maximizes of the inter-class variation

