

Homework 3

Histogram Equalization

- Detail description of equalization can be found at Reference [2] pp. 173~180.
- Due date: **2018/10/09 2:20pm**
- Grading policy
 - Please include the histogram of the final image. (As in the previous assignment).
 - Please read "Regulation #3".
 - Please do hardcore programming.



Histogram Equalization (Homework)

- histogram equalization histogram linearization

$$s_k = 255 \sum_{j=0}^k \frac{n_j}{n}$$

- $k = 0, 1, \dots, 255$, n_j : number of pixels with intensity j
- n : total number of pixels
- for every pixel if $I(im, i, j) = k$ then $I(imhe, i, j) = s_k$