

# CS423 Data Mining: Assignment 4

CMU, Due date: 4 December 2017

## Instruction

In this assignment, you will implement an image segmentation program using k-means clustering algorithm named `imsec(string, int)`. The program will take as inputs an image filename and the number of clusters. You will need to implement the k-means algorithm to complete the task. The program should output the original image and the segmented image on the screen. The guideline on image processing library can be found at <http://juliaimages.github.io/latest/>.

## Examples

The following is an example of the program

```
>> imseg("fluffy.jpg",3)
```

Original image



Segmented image



Figure 1:

```
>> imseg("desert.jpg",5)
```

Original image



Segmented image



Figure 2:

## Submission

Submit the codes to [jakramate.b@cmu.ac.th](mailto:jakramate.b@cmu.ac.th), prefixing your email subject with [423HW4].