

CS423 Data Mining: Assignment 4

CMU, Due date: 5 May 2019

Instruction

In this assignment, you will implement an image segmentation function 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.

Examples

The following is an example of the program

```
>> imsec("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, prefixing your email subject with [CS423-HW4].