

Scene Segmentation and Interpretation

Lab #1 Region Growing

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1 Objective

In this coursework the main goal is to develop a Region Growing algorithm for segmenting an image. The implemented algorithm should work for grey level images and colour images. The results have to be compared with the result of the Fuzzy C-Means (FCM) clustering algorithm (mostly provided in Matlab) on the same images.

2 Introduction and problem definition

3 Algorithm analysis

4 Design and implementation of the proposed solution

5 Experiments

6 Comparison with Fuzzy C-Means

7 Organization and development of the coursework

8 Conclusions