Abstract

As a person across the world is now becoming more caring about their health and weight. Many systems are available to measure the calorie intake from the food images before and after eating. Accuracy of the calorie measuring system is depending on food image analysis. The proper analysis of an image is based on image segmentation technique and is one of the important steps in image analysis. Multiple image segmentation techniques exist for extracting requires objects from an image. In this paper different image segmentation techniques based on Edge Detection, Morphological Operation, Threshold and Clustering based techniques studied and analyzed for segmenting different food images. Different image segmentation techniques implemented in MATLAB and then analyzed.

References

Study and Analysis of Image Segmentation Techniques for Food Images


6. Marios Anthimopoulos, Joachim Dehais, Peter Diem and Stavroula Mougiakakou, Segmentation and Recognition of Multi-Food Meal Images for Carbohydrate Counting. 2013 IEEE.


Index Terms

Computer Science

Image Processing

Keywords

Image Segmentation, Thresholding, Edge Detection, Morphological Operations, Clustering.