A Framework with OTSU'S Thresholding Method for Fruits and Vegetables Image Segmentation

Abstract

An accurate technique for segmentation of fruits and vegetables image is vital and major challenges in computer vision. Various segmentation techniques are available in digital image processing. In this paper, we introduce a framework for fruits and vegetables background subtraction employing Otsu's algorithm. This method is widely used in various image segmentation applications. The Otsu's method is useful in subtraction of background under the partial effect of occlusion, cropping, noisy and blurred images. Our proposed method was experimented by employing fruit and vegetable images acquired locally. Our experimental results confirm that, Otsu’s threshold based method is able to extract fruit and vegetable objects with good accuracy.

References


pp. 666-671.


Index Terms

Computer Science

Image Processing

Keywords

Otsu's method, Image segmentation, Fruits and vegetables Image, Morphological Operation, Thresholding Method