A Literature Survey on Methodologies for Classification, Maturity Detection, Defect Identification and Grading of Fruits

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Authors:
Reshma R., Sreekumar K.

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Abstract

The agricultural sector is the primary and unavoidable sector in Kerala. Kerala is a green state. In here wide variety of trees and plants are present. There are different species of trees and few of them are dig for fruits. Fruit has been accepted as a good source of vitamins, minerals and fibers. Most commonly used fruits are mango, jack fruit, banana etc. This work gives as the review of the fruit Classification, grading, maturity identification and defect detection. Image acquisition performed with digital camera. Fruits are classified based on different features like size, color, texture, etc. The presence of defects on the fruits affects the market value of the product. Now fruit quality estimation using machine vision in Kerala is ongoing.

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Index Terms

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Information Sciences

Keywords

Artificial Neural Network, Fuzzy logic, Grading