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.

References
10. MS Seena and PM Mahajan. 2016. A fruit detecting and grading system based on image processing. IJIREEICE-2016
17. Ghulam Muhammad.. Date fruits classification using texture descriptors and shape-size features. ELSEVIER. 2014.
18. Y. Song, C.A. Glasbey, G.W. Horgan et al. Automatic fruit recognition and counting from multiple images. ELSEVIER
19. Yu-Dong Zhang, Genlin ji at el. Fruit classification using computer vision and feed forward Neural Network. ELSEVIER. 2014.


26. Siti Khairunniza Bejo and Syahidah Kamaruddin. 2014. Determination of Chokanan mango sweetness (Mangifera indica) using non-destructive image processing technique. AJCS.


28. Baohua Zhang, Wenqian Huang et al. 2014. Principles, developments and applications of computer vision for external quality inspection of fruits and vegetables


**Index Terms**

Computer Science | Information Sciences

**Keywords**

Artificial Neural Network, Fuzzy logic, Grading