Modernization with automation incorporated makes a system more powerful. In the present world quality inspection of food products is a very important factor for evaluating the grade of food. In agricultural field, image processing is also used to evaluate the quality of rice. Major problem of rice industry for quality assessment is manual assessment done by human inspector. In this paper a method is presented to evaluate the quality of rice. Proposed method is an application of computer vision technique. Computer Vision provides an alternative for non-destructive and cost effective technique for Grading and Classification of rice using framework and neural network techniques. Some Geometrics features are useful for quality evaluation. In this paper proposed method is used to increase the accuracy of the rice quality detection by using such features with GUI (Graphical User Interface) and feed forward neural network. Artificial neural network detects the quality of rice by using features provided at the time of training and also the extracted features of rice and provides the result by comparing these features. It grades and classifies rice images based on obtained features.
References


**Index Terms**

Computer Science  
Signal Processing

**Keywords**

Feature extraction, GUI (Graphical user interface), Image processing, Quality analysis.