

## Rice Quality Classification Using Artificial Neural Network

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This project presents an improved method for classification of foreign bodies mixed rice grain image samples using a Neural Network Approach. Today competitive market rice contains many foreign bodies. To solve this problem only visual inspection is performed. In manual system human inspectors look at the foreign bodies in the samples and evaluate the grades for rice.

Neural Network system automatically determines the amount of foreign bodies present in rice grains. Thresholding technique is used to identify foreign bodies. Samba rice type was considered in this study. Feature extraction concept to collect information in images was used. Features are extracted using gray level co occurrence matrix method. The multilayer feed forward neural network is developed to classify rice grain images.

Key words: Neural Network, Classification

