ABSTRACT

Tomatoes are one of the mainstay commodities in Indonesian agriculture at this time, but how to identify and detect the maturity of tomatoes, size, and weight carried out in an industry are still mostly using manual methods, namely direct visual observation of tomatoes to be classified, which occurs this manual classification is highly influenced by subjective operator sorting so that in certain conditions it is inconsistent, the distribution process of tomatoes to various markets is still very ambiguous. With the help of the development of information technology the operator can able to identify tomatoes based on color, weight, and size characteristics with help of computers. This computational method is believed to get 95% accuracy of tomatoes data, using a camera as an image processor from images and a weight sensor that will measure the weight of tomatoes processed by using a micro computer. Therefore, the design of the tomato sorting tool is expected to minimize manual visual observation in a variety of tomatoes fruit distribution industries.

Keyword : Tomatoes fruit, Tomatoes Sorting, accuracy, Computational.