

## **Klasifikasi Mutu Pada Buah Jambu Biji Berbasis Citra Digital**

*(Quality Classification of Guava Fruit Based on Digital Image).*

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### ***ABSTRACT***

*Guava is one of the fruits in Indonesia with an increasing demand for fruit every year, with an annual productivity of 11 tons/ha. However, the classification process for the quality of guava fruit has many obstacles due to subjective fruit selection or lack of understanding of knowledge in choosing good and damaged fruit, so that the selection of guava fruit is less accurate. Researchers created a system that can classify the quality level of guava fruit using Naive Bayes with nine parameters 1 parameter of color feature extraction, namely: green and eight input parameters GLCM features: Contrast G0, Entropy G0, Contrast G45, Entropy G45, Contrast G90, Entropy G90, G135 Contrast, G135 Entropy and 1 color feature which is Green. This study aims to make it easier to classify the quality of good and damaged fruit on guava, considering the quality of the fruit that is felt directly by the as the most important quality indicator. The results of the quality classification system on guava fruit using Naive Bayes obtained the highest accuracy of 91.66%.*

*Key words: Guava, GLCM, Naive bayes, and Digital Image.*