

## **Abstract**

**Indonesia is a country that has a high number of rice needs. This requires farmers to produce rice in large numbers and with good quality. However, the existence of diseases in plants causes reduced quality and quantity of rice. Rice leaves are the most important part as the first step to detect disease in rice. This is because the leaves have a broad cross section compared to the rest of the rice plants, so that changes in color and shape can be seen more clearly. In this research we identify and classify diseases that exist in rice leaves through digital image processing. The method that we use to identify forms of rice disease symptoms is Local Binary Pattern (LBP) and Color Feature using Support Vector Machine (SVM) classification. In this research we successfully get an accuracy 98.33%.**

**Keyword: Digital image processing, Local Binary Pattern, Support Vector Machine**