

ABSTRACT

Nails are one part of the fingers and toes, by observing the shape and condition of the nails, health practitioners can find out information about a person's health, but it is sometimes not recognized and ignored by the public, even though many diseases can be seen through the condition of the nails and the shape of the nails one of them is Cirrhosis. The application made in this study can detect Cirrhosis disease based on the condition and shape of the nail. This application can determine whether someone is suffering from Cirrhosis or not by analyzing nail images using the Convolutional Neural Network (CNN) classification method. The results of the classification will be made based on the symptoms that are felt by users by using the Naive Bayes method so that they can provide decisions and suggestions that are appropriate for the user. This application is expected to help users to find out whether they have Cirrhosis disease or not. The accuracy obtained in the classification of nails is 96.20% while the accuracy obtained by the expert system is 91.89%.

Keyword : Cirrhosis, Convolutional Neural Networ (CNN), Naive Bayes, nail