

Abstract

Hand, Foot and Mouth Disease is an infectious disease that is common in infants and children. The disease is one of the diseases that spread quite quickly, with symptoms that often appear on the palms. Based on these problems, in this Final Project, the author will create an application that can detect early HFMD disease based on the condition of the palm.

The purpose of designing this application is to detect HFMD disease based on the condition of the hands on Android-based devices. The final results obtained from the image processing and expert systems in this application are in the form of information. With the developing of the Early Detection Of Hand, Foot And Mouth Disease Based On Palmprint Using Certainty Factor As Expert System Method And Speeded-Up Robust Features (SURF) As Feature Extraction Method Based On Android, it is expected to be easily used by the public. From the results of the tests that have been done, the results of the accuracy of this application for the expert system method are 100%. Meanwhile, the accuracy for feature extraction are 70%

Keywords : HFMD, SURF, certainty factor