

**EXPERT SYSTEM FOR DIAGNOSIS OF COLOR BLINDNESS USING
THE METHOD OF ISHIHARA AND METHODS OF MUNSELL
FARNSWORTH BASED ON ANDROID**

Dedy Widya Nugraha

Study Program of Informatics Engineering
Majoring of Information Technology

ABSTRACT

One way to find out someone color blind is by methods of Ishihara and methods of Munsell Farnsworth, the test is carried out by the expert to the patient. The results obtained for the method of Ishihara is a diagnosis of color blindness and the function of the method of the Ishihara test to know the weaknesses of red and green, while for the Munsell Farnsworth to know the weaknesses of the red, green and blue. This study makes an app color blind test using the method of Ishihara and methods of Munsell Farnsworth then the research method uses Forward Chaining, has previously made application where the test Ishihara and Munsell Farnsworth does not use the timer on while doing the test and the application must be connected to the internet if you want to use it. This application uses the 14 plate Ishihara, where each answer plate is given a time of 6 seconds and to a method of Munsell Farnsworth was given 120 seconds to sort the arrangement of the coins of color Munsell Farnsworth. A Total of 30 respondents who had done research the results obtained for the accuracy of the application, namely 84%. The application can run properly without using Internet connection.

Keywords : *Colour Blindness, Ishihara Test, Munsell Farnsworth Test, Forward Chaining*