

ABSTRACT

Cervical cancer is a disease that attack on women. The cause of this disease is viral infection called Human Papilloma Virus (HPV). This virus can spread easily. Bad habits can also lead to this disease. Due to the late awarness of this disease, it makes the cervical cancer patients died. With the development of technology, an early detection method is used to recognize if the patient has been infected with this virus, the method used is Visual Inspection Acetic Acid (VIA). Before conducting the test, look for Skuamosa Columnnar Junction (SCJ). This examination can be done with bare eye, but sometimes people have distinctive difference in their vision, therefore one of the many way of doing the test is by using android based smartphone technology that become a determined reference.

In this final assignment, a detection system Connection Skuamosa Columnnar Junction (SCJ) are created on an Android smartphone device. Images are processed with the canny edge detection methods and combined with color matching limits of the test data. From the test result, edges with lines edges indicating potrayal of Skuamosa Columnnar Junction (SCJ).

From the final results, Skuamosa Columnnar Junction (SCJ) image edges obtained as edge detection results with 80% detection accuracy. Accuracy is increased if the images shot with precise.

Keyword : Servical Cancer, SCJ, VIA, Android