

## ABSTRACT

Some humans were created with limited sense of vision. So, to do an activity they need a tool to replace their visualization to the surrounding environment. One common tool used by blind persons to help them is a stick, where the stick is used to determine the condition of the road that will pass in front of him.

At this time the development of digital image as a media to produce a visual image is developing rapidly seen from many applications that utilize digital imagery for other purposes. At this final project is designed a system that can detect and classify the type and direction of a digital image. Detection and classification results were used as a reference for a blind person to determine the condition of the road that will pass in front of him.

From this system, obtained an output with an accurate result with a maximum percentage is 90%.

**Keyword:** Digital Image, Blind Person, Visualisation.