ABSTRACT

At this time, wearing a mask is something that must be done to reduce or prevent the spread of the COVID-19 virus, which continues to spread. In the examination, the use of masks certainly requires a human force to carry out inspections one by one. This study aims to build an infrastructure for automatic detection of the use of masks in order to reduce the spread of the COVID-19 virus, which is currently a dangerous outbreak, by using the feature of photographing the person when passing the camera, wearing a mask or not wearing a mask. In this study, the method used was the Haar Cascade. It is a method of detecting an object by Paul Viola and Michael Jones. The result of this study is the detection of the use of masks from internal and external webcams. This system is made using the Raspberry Pi as the main brain and Python as the interpreter. which will save the captured frame in firebase and will analyze whether to use a mask or not.

Keywords: Haar Cascade, Raspberry Pi, Mask Detection, Covid-19, Object detection