ABSTRACT

At the end of 2019, the world was shocked by the existence of a deadly new virus called Coronavirus Disease 2019 or commonly referred to as Covid-19 originating from China which resulted in paralysis and a decrease in the quality of people in Indonesia in various sectors. Until now, the spread of the corona virus has not been confirmed when it will end because every day there are still new cases, causing its own anxiety in the community because there have been several waves and hampered some activities that can usually be carried out under normal conditions. Therefore, in this final project, a tool will be made that can detect objects in the form of humans in a room using a Raspberry Pi 3B + microcomputer and a camera, namely RaspiCam and will be placed on a drone. For object detection, it uses the SSD-MobileNet v1 method and SSD-SpaghettiNet Edge TPU with various models as a comparison. The test results show that RaspiCam can detect humans if the lighting is above 150 lux. In addition, it can be seen that the accuracy value generated using both the SSD-MobileNetV1 & SSD-SpaghettiNet models reached 93% with a total of 15 experiments.

Key word: accuracy covid19, drone, detection, Raspi, RaspiCam, drone, detection, SSD-MobileNetV1, SSD-SpaghettiNet,