ABSTRACT

The COVID-19 pandemic that entered Indonesia since the beginning of 2020 has indirectly changed our lifestyle as a society that is attached to health protocols. Although during the AKB (Adaptation to New Habits) period, people can return to their normal activities, they still have to obey the rules. However, in reality there are still many people who do not obey the rules.

All that causes crowds that often occur to be more closely monitored in order to prevent crowds caused by our own society. In this project I use CNN (Convolutional Neural Network). The result of this final project is a human detection system that is used to prevent crowds of people. It is hoped that with this system many people are aware of the crowds that can spread the Covid-19 disease.

The results of this final project carried out 3 system tests, namely front view testing, color effect, and side view testing. The object recognition gives different accuracy results depending on the front view, the effect of color, and also the side view test. The results of 3 system tests with human object types have different accuracy when the recognized objects have been counted and if more than 3 people are counted, a crowd running text will appear.

Keywords: New Habit Adaptation, Covid-19, Convolutional Neural Network