ABSTRACT

March 2020 has occurred a very extraordinary event, namely the emergence of Covid-19 which has resulted in crises in various fields. The government then encourages residents to maintain their health so as not to be exposed to the virus, namely by complying with health protocols and one of them is by wearing a mask. Prevention carried out by humans can result in human error due to their negligence. So in this new normal life, technology must play an active role in the process of preventing Covid-19. With the help of deep learning to carry out its function, a masked or maskless face detection system was designed using the You Only Look Once (YOLO) method. The system created will run in real-time by utilizing the web camera on the laptop and can detect faces with various variations of medical and non-medical masks with various varasi, it can also detect the use of masks correctly and the use of masks incorrectly. The test results from 853 training data taken from the kaggle website obtained an accuracy value of 88.3%.

***Keywords** : Covid-19, Web Camera, YOLO, Real-time, Detection.*