

Abstract

In this research, a mask detection system was formed using RetinaFace as face detection and MobileNetV2 as a classification system for using masks on the face. The Flow system begins with a face detection system using RetinaFace. RetinaFace takes the facial part of the image and forwards it to the mask usage classification system model using the MobileNetV2 model. The MobileNetV2 model conducts training with a training set consisting of 23,115 masked and non-masked face images and testing is carried out with a testing set consisting of 6,998 masked and non-masked facial images. The accuracy results obtained by the MobileNetV2 model are 99.3%. However, the MobileNetV2 model can still provide wrong prediction results for facial images from people taken from a long distance

Keywords: COVID-19, retinaface, mobilenetv2