ABSTRACT

During the Covid-19 pandemic, the Indonesian government announced that one of the efforts to prevent the spread of Covid-19 was physical distancing and mandatory wearing of masks. But there are still many people who still don't care. Therefore, the purpose of this Final Project is to make a distance detector, body temperature and mask to help the community to be more disciplined towards these regulations. This tool system is made for outdoor areas (bus stops). This system uses facial recognition methodology to detect object faces (humans) and object detection to detect humans with Deep Learning and Machine Learning algorithms and is applied to computer vision, the interpreter used is Thonny IDE. The average deviation of body temperature testing using a thermal camera with manual testing using a thermometer is 0.211.

Keywords: Physical Distancing, Raspberry Pi, Thermal Camera, OpenCV.