

ABSTRACT

Physical distancing is one of the most possible efforts to prevent the spread of the Covid-19 virus to be implemented in Indonesia. However, sometimes the community has not carried out these efforts properly. Therefore, a tool is needed to remind the public to continue carrying out these efforts. This tool system is made for indoor areas (restaurants) which have several features, namely detecting distance, detecting body temperature, detecting masks, and also counting the number of visitors who enter the restaurant. This final project uses face recognition methodology to detect object faces (humans) and object detection to detect humans. This system uses Open CV, Deep Learning and Machine Learning libraries. The interpreter used is Thonny IDE. The average deviation obtained from testing body temperature using a thermal camera with manual body temperature testing (using a thermometer) is 0.121.

Keywords: Physical Distancing, Thermal Camera, Raspberry Pi, Detecting Masks.