ABSTRAK

Over time, the situation at the time of the current coronavirus pandemic is difficult to do as it should be. But with the demands and obligations that one lives must be done to meet the needs of daily life. In connection with this, people must undergo activities by complying with applicable health protocols and also keeping a distance in order to minimize the spread of coronavirus or commonly called covid 19.

To overcome the problem that occurs due to corona virus that can quickly be transmitted in humans, can be done by doing social distancing. Where in this study detects a person with the aim to keep doing social distancing both indoors and outdoors. The method to be used is the Laplacian of Gaussian method, Haarcascade algorithm for face detection while to detect distance is used Euclidean distance method. Laplacian edge detection of Gaussian operators is an operator developed by combining filter operators and edge detection operators. This operator is a second-order derived operator with anti-noise at the edges of the measured object, this is because Gaussian filtering is performed before the detection of the edges of the object is performed, the purpose of obscuring the noise contained in the image. Noise will be made by the edge detection process.

Furthermore, Haarcascade algorithm is used for face detection and displays bounding box with green color. If there is a violation of social distancing, the system will display a bounding box with yellow color and there is a line between the bounding box with red.

Keywords: Covid 19, social distancing, Laplacian of Gaussian, Euclidean distance, Canny