

ABSTRACT

CCTV is needed during the COVID-19 pandemic as a physical distance surveillance camera. The physical distance in question is maintaining a safe distance between other people as far as one to two meters. Therefore, in this study, we design a detection system for the position of human presence in a room based on CCTV. In making the system using the HOG method to detect humans and the Euclidean Distance method to detect the distance between detected humans. Testing the success of the system when the distance between the camera and the object was placed as far as 160 cm, the highest accuracy when the distance between the objects was 300 cm was 96.05% and when the distance between the camera and the object was placed as far as 200 cm, the highest accuracy when the distance between the objects was 200 cm. amounting to 86.93%. Then, when the distance between humans is 100 cm in the afternoon, it produces the highest accuracy, namely 95.52%, when the distance between humans is 200 cm, at night, using room lights produces the highest accuracy, namely 98.64%, and when the distance between humans is 100 cm. between humans 300 cm at night using room lights produces the highest accuracy, namely 98.63%.

Keywords: Detection, CCTV, Physical Distance