

PERANCANGAN SISTEM DETEKSI MASKER WAJAH BERBASIS METODE HAAR CASCADE CLASSIFIER Teknologi Informasi Universitas Teknologi Yogyakarta

Ganang Surya Saputra

*Program Studi Teknik Komputer, Fakultas Sains & Teknologi
Universitas Teknologi Yogyakarta
Jl. Ringroad Utara Jombor Sleman Yogyakarta
E-mail : Ganangsur@gmail.com*

ABSTRACT

Coronavirus Disease (COVID-19) is receiving special attention worldwide. The COVID-19 infection has spread almost throughout the world, including Indonesia. Indonesia is experiencing a crisis, especially in the health and economic sectors, due to the COVID-19 pandemic, so the government implements Community Activities Restrictions Enforcement (PPKM) in each area because the spread of the virus is considered very fast. So that public services or public places require people to wear masks. So far, mask detection is done manually with observations from security officers. Where human error often occurs when detecting masks. This study will apply a mask detection system (Face mask detection) using image processing. This face mask detection uses the Haar Cascade Classifier method. This system uses a combination of object detection classification, image, and object tracking to develop a system that detects masked or unmasked faces in videos. In testing the face mask detection system, the accuracy rate for face mask detection is 86.6%, the face mask detection precision is 100%, the recall face mask detection is 75%, the face mask detection specificity is 100%.

Keywords: *Artificial Intelligence, Object Detection, Haar Cascade Classifier, Realtime*

