

ABSTRACT

FACE RECOGNITION SYSTEM USING VIOLA - JONES METHOD AS A GATE ACCESS SYSTEM MECHANISM

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Gate access systems owned by office buildings now have many types, ranging from RFID, Fingerprint, and PIN. Of the various kinds of access gates that are owned by building security, most buildings use RFID as the main gate access to the building. Nowadays, developing one of the access technologies that have been used in various kinds of smartphones, has even been used to protect guests from an event. The technology is facial recognition or facial recognition. In this study, facial recognition features will be implemented on the building gate access system, facial recognition features are done through face detection, and then face recognition is carried out to be matched with the user's face datasets that have been available on the previous system. Face detection uses the haar cascade method, and face recognition in this study uses the prediction method in the Opencv library. The use of this method results in the detection of the user's face with 45% face matching accuracy in face approval.

Keywords : *Gate Access, Face Recognition, Viola-Jones.*

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