PRESENSI CERDAS BERBASIS SIMULTANEOUS FACE RECOGNITION SEBAGAI SISTEM PRESENSI PERKULIAHAN NEW NORMAL PASCA PANDEMI COVID-19

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ABSTRACT

The presence of students in attending lectures has a positive correlation with the knowledge gained. The relationship between attendance and the knowledge gained causes attendance to be one of the conditions that students must meet in face-to-face lectures. To support this, several universities have implemented minimum attendance limits so that attendance records are required.

The recording of lecture attendance at first was done by initialing it on the attendance sheet. In new normal conditions after the Covid-19 pandemic, lectures will be carried out in accordance with predetermined health protocols such as maintaining distance between students and avoiding touch. Attendance manually using a signed attendance sheet makes students hold the same object in turn, making health protocols unworkable. These problems can be overcome with an online presence system. However, the current online presence is still not efficient because the recording process is still done manually by means of the lecturer calling the name of the student. This method is inefficient because it is done repeatedly at every meeting, resulting in reduced time used for lectures.

Researchers are trying to develop various methods to overcome this, such as using fingerprints, Internet of Things devices, cards with RFID technology, QR codes and smartphones. It's just that the technology used requires a lot of equipment and a large cost. One of the methods to be able to detect attendance is facial recognition technology. Facial recognition is able to identify many people at once without having to make direct contact. Even though it has many advantages, this technology still needs to be tested for accuracy, especially if it is used for presence systems. Therefore, this study aims to develop an intelligent presence system with facial recognition and then test the accuracy of the system.

Kata Kunci: *face recognition, new normal*