

ABSTRACT

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Student Attendance System Using Face Recognition

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(xiv + 57 + Attachments)

Human faces reveal a lot of information to the beholder. It can tell about moods, intentions and concerns, but it can also serve to identify a person. That is why the facial recognition system is one of the systems that continues to be developed and researched in the field of computer vision research. Based on several methods that have been researched by previous researchers, the author wants to design and develop an attendance system using one of the variations of the Deep Convolutional Neural Network (DCNN) namely Multi-task Cascaded Convolutional Neural Network (MTCNN) and Vggface2 and apply the Pytorch library to deepen knowledge of facial recognition. Vggface2 is a neural network model used in facial recognition for image extraction. The purpose of scientific writing is to be able to develop and implement MTCNN and vggface2 into the attendance system using face detection and perform attendance automatically after the face is recognized and integrate the attendance system with the database. In accordance with the test results, it can be concluded that the attendance system that has been made is able to perform the attendance process to the user in real time with an accuracy rate of 96.6% through functional testing, but the accuracy of the attendance system through this facial recognition method will be worse if the lighting is lacking or not. more.

Bibliography (2004-2021)