

ABSTRACT

Blind people have limited vision so their mobility is limited. The obstacle that often arises is when blind people find it difficult to recognize each other's human identity, usually blind people can recognize someone's identity only from the character of the voice given by that person. The stages of this research include the design of a face recognition system which is designed using a camera to help identify a person, then the testing stage is carried out by matching a person's face, with a face that has previously been inputted in the database, then the final step is to prove the accuracy of someone's identification with the output in the form of voice. . Based on the test results, this tool uses a 32x32 pixel, very selective in face detection, the ability of the tool to respond to face detection under certain circumstances, the level of the tool's ability to recognize objects correctly in identifying faces, object detection 1 has an average value of 100% , object 2 average value 80%, object 3 average value 40% with a distance of up to 150cm. The hope of this research is to provide identification aids for blind people.

Keywords: Face Recognition, Eigenface