ABSTRACT

Based characteristics or signs of someone, then that person can be

identified. Techniques Biometrikmerupakan one technique that can identify a

person based on a physiological one and characteristics. An assortment of

biometric techniques are used to prove one's identity. Many systems use some

kind of user identity such as laptop computers, ATMs and Mobile. Other

biometric techniques are often used for a person's identity is iris recognition scan,

voice recognition facial recognition and hand geometry

In this thesis aims to implement a method to recognize an image so it can

be properly verified by the computer by utilizing a variety of theories as to how to

make Processing Image software as hand geometry biometrics verification

systems, and hardware as the output of the receiving system software verification

and translates as access to open and lock the door. The results of testing the

system will then be saved to a database, which will demonstrate that the

introduction of the hand structure can be considered for biometric purposes .

90 Expected success in this thesis is more than

Implementation results using the K-Nearest Neighbor method as a method

of hand image recognition for access control doors. From the results of the testing

and analysis concluded that the value of K=1 and type classification Cityblock

distance has the highest accuracy is 94.44%. While the worst accuracy is the value

of K=9 with the type of classification is 70.83% Cityblock distance. So the value

of the K factor and type classification is very influential in determining the

performance of performing the detection. the system in

Keywords: Biometrics, Image Processing, Introduction to Hand Structure,

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