ABSTRACT

Development of information technology is always in line with the increasing security to protect data and IT infrastructure that is in it. One of these is the need for the security of a reliable key to detect the unauthorized possession of an access to information technology. It could be the key password, PIN (Personal Indentifier Number), or physical characteristics that are unique to a particular personal can be distinguished from the other personal.

Password and PIN is the most basic security methods that have been used for a long time. Often this method can be manipulated and there are gaps crime. Therefore, it is now widely used form of biometric key member of the human body. Members of the human body is often used fingerprints, retinal patterns, and hand lines.

In this thesis used the palm of the hand as the research object because the object of more extensive measurements. Unlike the use of fingerprints, palm of the hand have characteristics that are more specific. Characteristic extraction method using Haar Wavelet and character classification using Support Vector Machine (SVM). The result is able to distinguish personal hand with the above method.Accuration of the testing are 87%, 97%, and 91%.

Keywords: security, biometrics, palms, Haar Wavelet, SVM