

## *Abstract*

Individuals can be recognized through a variety of characteristics: through physical, chemical, and behavioral. Characteristics of each individual is unique ( different from one individual to another individual ). Therefore, in recognizing an individual can be made through the individual traits. One form of individual recognition is through fingerprint recognition technology ( fingerprint ). This technology has been widely used in our life, the example is employee presence at office.

However, this fingerprint recognition technology has drawbacks. One drawback is the small cross-sectional area so that if there is damage it will cause the fingerprint are difficult to identify. Therefore, the use of fingerprints as a media of identification can be substituted by using the palm of the hand ( palm ).

In this thesis, identification of the palm using Local Binary Pattern ( LBP ) method and Levenberg Marquard Backpropagation ( LMB ) method. LBP method used to obtain the characteristics of the palm. LMB method is used as a method of classification of palms.

As in getting the Region of Interest ( ie. the palm of the hand ) used methods Competitive Hand Valley Detection ( CHVD ).

The results of Local Binary Pattern method and Levenberg Marquardt Backpropagation for identify the palm has the highest accuracy of 86,67%.

**Keywords: Local Binary Pattern, Levenberg Marquardt Backpropagation, Palm, CHVD.**