

## **ABSTRACT**

Name : Novia Inggrit Dewiayu Santikasari  
Majority : Telecommunication Engineering  
Title : Analysis and Implementation of NiBlack Method for Palm Vein Recognition System

Palm vein recognition is one of the most useful method for recognize people identity from biometrics palm vein feature, spesificly from vein blood vessel on palm vein. In this time, palm vein recognition system has popular for topic reaserch because it has high accuracy and difficult to duplicate.

NiBlack method is one of the most method who used for image enhancement, and image segmentation. This method has dynamic segmentation thresholding algorithm. So it can be reach 95% value accuracy when this method implementated on dorsal hand vein pattern recognition with normalization dan skeletonization at first.

The result of simulation has the best accuracy up to 90%, using ratio between data train and data test 5:1, window size 40, constant thresholding 0.5, and ROI automatic.

**Keywords :** palm vein, image enhancement, NiBlack