

ABSTRACT

Biometric method is a reliable method to do the identification for specific characteristics or patterns on each individual. Biometric methods such as fingerprint, face, eye retina are often used but in specific condition they become a constraint, so they are difficult to be identified. This research do the identifying individuals with the introduction of Palatine Rugae. Palatine Rugae is a vital organ in a head skull and part of the most resistant to the accident and have a unique morphology for each individual. To support this research, samples obtained by cooperation with Faculty of Dentistry of the University of Padjajaran.

To get the characteristic palatina rugae, this research do analysis using the methods of Histogram of Oriented Gradient (HOG), and for the classification method using Multi Layer Perceptron (MLP).

The final result of this research is to get a system for identification and classification of individuals. The performance of the system over 70% by using 40 samples training images and 15 test image.

Keyword- *Biometric- Rugae Palatina, Multi Layer perceptron, the Histogram of Oriented Gradients.*