

ABSTRACT

Height and weight is one of the parameters to identify a person, even more so for a forensic. To identify the height and weight is usually done manually, in addition to the manual method using a measuring device height and weighing weight can also use the information associated with your feet, it can be used for forensic. The relationship between height and length of the foot can be expressed in the correlation coefficient (r). Similarly, its relationship with weight. Then implemented a system measuring the height and weight of the human body through the soles of the feet based on Android.

Identification of the soles of the feet to match the estimated height and weight is first doing research on the soles of the feet, height and weight. Then done taking some samples. From the research results are then analyzed and implemented in Android application with insert an image stamp your feet. The method used in this final project is Gabor Wavelet and the KNN classification.

Compared with the previous final to determine the topic of height using a stamp your feet and produce 73.33% accuracy and computational time 5.99 seconds. The final task is to develop the subject, namely identify the estimated height and weight of a human using a stamp feet. And can categorize the level of ideal body according to body mass index (BMI) with occuracy 75% and coputation time is 8,92 second. That mean this occuracy is better.

Keywords: Foot, Height, Weight, Gabor Wavelet, K-Nearest Neighbor (K-NN)