

ABSTRACT

Height and weight are variables that are widely used in determining the nutritional status and health status. By measuring these variables correctly will be able to reduce bias or error is generated. Sometimes an individual may commit errors of interpretation and diagnosis if the data used is not taken in the right way. The tools used to measure the height is microtoise (stature meter) or a shortboard. The tools used to measure weight is weight scales in kilograms (kg). Weight scales that are used can be either digital scales and scales needle.

Height and weight measurements can also be performed using the information related to the human foot. Measurements were performed by researching and analyzing samples stamp human foot. Then the results of these studies will be implemented into the system of measuring height and weight based human foot into Android-based applications. In this final, feature extraction method used is the Discrete Wavelet Transform (DWT) and classification method used is the method K-Nearest Neighbor (KNN).

This application is able to measure the height and weight of a human using a sample stamp your feet. This level of accuracy in this application is 75%.

Keywords: Footprint, Height, Weight, Discrete Wavelet Transform (DWT), K-Nearest Neighbor (KNN)