

## **Abstract**

In this study, data from the accelerometer and gyroscope signals must be processed first so that they can be used to predict patterns of activity in the elderly. One process is feature extraction. The classification process cannot be carried out if a signal data does not yet have the characteristics. To solve this problem, a feature extraction process is performed to obtain the characteristics of the signal data. Feature extraction algorithms used are Time Domain Feature and Power Spectral Entropy. The method used survey, experiment and analysis related to the algorithm used. The Time Domain Feature algorithm turns out to produce better accuracy than Power Spectral Entropy.

Keywords: Feature Extraction, Wavelet, Accelerometer, Gyroscope