

# Abstract

Like outdoor condition, indoor condition also has rooms to explore with various kind of movements. People can walk and run during in indoor to get the location. Since it has many possibilities of movement than in outdoor, this research aims to classify two types of possible movement while in indoor, walking and running. In many previous works, accelerometer with smartphone is most likely used device to obtain the data of movements. With Support Vector Machine algorithms, it gains accuracy above 90% by measuring the threshold, number of feature extraction, and duration of movements.

**Keywords:** Movement recognition, accelerometer, mobile device