

Abstract

Along with the development of knowledge, there are a lot of ways to break traditional house-key. Therefore, new house-key is needed to protect the house. In this research, new house-key with smart lock system named secret handshake is designed, using door handle movements as a password to open the house-key. Limit switch and naive bayes classification method are used by secret handshake system to classify the data from limit switch movements. Naive bayes method is chosen because it only uses small amounts of training data. Secret handshake system works when the limit switch reads the movements and then the data is sent to matlab through thingspeak to be processed using naive bayes classifier method and get the true password prediction values that have been input. The result showed that naive bayes classifier method can differentiate between the true and wrong password with 93.33% accuracy.

Keywords: *smart lock, limit switch, secret handshake.*