

ABSTRACT

Everyone has experienced the flu with mild, moderate to lethal symptoms. The flu is caused by an RNA virus belonging to the Orthomyxoviridae family. Signs of influenza are accompanied by fever, chills, muscle aches, headaches, and often a runny nose, and sore throat. Flu can also be detected through heart rate (heart rate), steps (steps), and resting heart rate (resting heart rate).

Support Vector Machine (SVM) is an algorithm for detecting influenza using heart rate, steps, and resting heart rate, data taken from someone who is using a wearable device that is used as a watch. Using this algorithm can help detect influenza to prevent more severe complications.

Influenza detection uses two subjects and three parameters, namely heart rate, steps, and resting heart rate. Then these three parameters were tested using the Support Vector Machine algorithm by getting accuracy values for patient subjects 1 87% and patient subjects 2 83%.

Keywords: Detection, Influenza, Heart Rate, Steps, Resting Heart Rate, Support Vector Machine.