Abstract

The increase in popularity of different sensors and gadget coming in market (MI HRV band, apple watch Microsoft band) which capable to observe every activity of heart and its related condition. One of the most prevalent healthcare problems today is the poor survival rate of out-of-hospital sudden cardiac arrests. Heart Disease is the number 1 cause of death globally more people die annually from Heart Disease than from any other disease such as Heart attack and stroke. According WHO Report say an expected 17.9 million people died from Heart Disease in 2016 according to WHO health report, representing 31% of all global deaths. Heart attacks and strokes main reason are tobacco or smoking, unhealthy diet, physical inactivity and the harmful use of alcohol. Of these deaths, 85% are due to heart attack and stroke. Heart disease is the Noteworthy reason for short life. Large population of people depends on the
healthcare system so that they can get accurate result in less time. The main aim of this paper is to apply machine learning algorithm on our dataset which collect data by the healthcare organization and KVK research Lab on the daily basis. This paper proposes to prediction of heart disease and classification of unique attribute extraction method to increase the accuracy of classification. This kind of system is very helpful in reducing the risk of death.

References

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HRV based Human Heart Disease Prediction and Classification using Machine Learning


Index Terms

Computer Science
Artificial Intelligence

Keywords

Heart Disease, Machine learning, HRV, ECG, Logistic Regression, SVM, CHD,