Abstract Details

Title: A Literature Survey on Applications of Data Mining Techniques to Predict Heart Diseases

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Abstract: Data mining is a phenomenon which is used to analyze large volumes of data and extracts patterns that can be converted to useful knowledge. The data mining techniques can be applied on medical data. By using software to look for patterns in large batches of data, businesses can learn more about their customers and develop more effective knowledge. As in medical science record we found 25 per cent of deaths in the age group of 26- 69 years occur because of heart diseases. If all age people are included, heart diseases account for about 19 per cent of all death rates. It is the leading cause of death among males as well as females. However researchers have proposed various tools to detect and diagnosing disease using various algorithms and prototypes like naïve bayes and weighted associative classifier (WAC) but still many cases come to us by random sampling where we fail to predict the original case. So our aim here to analyzes how data mining techniques are used for predicting different types of diseases so this paper reviewed the research papers which mainly concentrated on predicting heart disease, Diabetes and Breast cancer. The systematic literature survey is based on collection of different international journals and conferences and world health organization (WHO) reports. These journals have been published within the time span of 2008 to 2015.

Keywords: Naïve bayes, weighted associative classifier (WAC), data mining, kidney failure, heart disease, A-prior and k-mean algorithm.