

Review on Heart Disease Classification

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Abstract:

Heart disease is the foremost cause of death. According to WHO, deaths due to heart disease account for 30% of the global deaths. The main challenge that medical practitioners face is the disease not being identified at an early stage as the traditional approaches are quite time-consuming. Machine learning algorithms can help to deal with the emerging challenges in heart disease classification. The proposed work presents a short review about heart disease classification problem, many classification techniques along with future research directions.

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Introduction

Heart disease is one of the leading reasons for loss of life. It has a harmful permanent disorder. Medical data has a vast amount of information but definite knowledge cannot be extracted out of it. Also, diagnosing patients accurately and on time becomes important. If patients are handled using previous data then definitely there is a possibility to extend the life of the patients. Blood vessel diseases, heart rhythm problems, and heart defects when an individual is born are a similar kind's disease. Nowadays, the global majority of death occurred due to heart disease as compared to other diseases. According to the report of the WHO, cardiac disorder is the main cause of loss of life in the world. Globally 30% of death occurred due to cardiovascular disease. According to a survey in middle-level countries, 80% of deaths happened due to cardiovascular disease. The detection of heart problems is the more trivial task of medical researchers and accuracy is a major concern [7]. The University of California at Irvine (UCI) dataset attributes listed in Table I along with the description. Table I List of attributes

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