Abstract

This research paper proposes the enhancement of the accuracy of the results by using Artificial Neural Network optimized with Genetic Algorithm in prediction of heart disease diagnosis with UCI dataset. In this study neural network is optimized with Genetic Algorithm and proved experimentally. The trained feed forward neural network and fitting neural network are optimized with genetic algorithm and is then compared with the scale conjugate gradient descent back-propagation algorithms trained feed forward neural network and fitting neural network respectively for the accuracy enhancement percentage. The proposed learning is much faster and accurate as compared to the other one. The proposed learning is designed and developed by using MATLAB GUI feature. The proposed method achieved an accuracy of 97.83%. With this higher achieved accuracy the heart disease can be diagnosed more accurately and much proper treatments can be suggested.

References

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Index Terms

Computer Science
Artificial Intelligence

Keywords
Data Mining  Diagnosis  Genetic Algorithm  Heart Disease  Neural Network.