Abstract

This paper presents an application of Artificial Neural Networks (ANN) in predicting patient coronary heart disease status. Multilayer perceptron (MLP) which is a type of ANN architecture was used to develop the proposed model. Several experiments were carried out to determine the network optimal parameters. Overall, the optimised ANN system achieved a very high diagnosing accuracy of 92.2%, proving its usefulness in support of diagnosis process of coronary heart disease.

References

Using Artificial Neural Networks to Diagnose Heart Disease


Index Terms

Computer Science  
Artificial Intelligence
Keywords

Artificial neural networks, Multilayer perceptron, Back-propagation algorithm, Coronary heart disease, Principal Component Analysis