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


Index Terms

Computer Science

Artificial Intelligence
Keywords

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