A Novel Fuzzy Expert System Design for Predicting Heart Diseases

Abstract

The volume of data generated by rapid technological progress also on the rise is too fast, use, the selection of useful data and its analysis of the issues that have been of interest to researchers, obtain conclusive results due to the uncertainty of this information to resolve these issues also are research priorities. Forecast diseases, including the risk factors in the selection of important and complex issues that concern is to get the correct result is that Heart disease is no exception. In this paper, using a fuzzy system a model is designed to predict heart disease that using design rules based on medical science works. By a physician, a series of rules designed, with this rules and fuzzy systems a good model with more efficient for predicting heart disease is presented. The proposed algorithm is based on data obtained from several cardiac patients and healthy individuals were tested in Tohid Hospital in Sanandaj city, the proposed algorithm's accuracy from 95% in people prone to heart disease to be identified with precision.

References
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**Index Terms**

Computer Science

Fuzzy Systems

**Keywords**

Predict heart disease, Fuzzy systems, Fuzzy inference engine, Risk factor.