Heart Disease Prediction System using Data Mining Techniques and Intelligent Fuzzy Approach: A Review

Abstract

The Healthcare trade usually clinical diagnosis is ended typically by doctor’s knowledge and practice. Computer Aided Decision Support System plays a major task in medical field. Data mining provides the methodology and technology to alter these mounds of data into useful information for decision making. By using data mining techniques it takes less time for the prediction of the disease with more accuracy. Among the increasing research on heart disease predicting system, it has happened to significant to categories the research outcomes and gives readers with an outline of the existing heart disease prediction techniques in each category. Data mining tools can answer trade questions that conventionally in use much time overriding to decide. In this paper we study different papers in which one or more algorithms of data mining used for the prediction of heart disease. As of the study it is observed that Fuzzy Intelligent Techniques increase the accuracy of the heart disease prediction system. The generally used techniques for Heart Disease Prediction and their complexities are summarized in this paper.

References

2. Shusaku Tsumoto,” Problems with Mining Medical Data”, 0-7695- 0792-1 I00@ 2000 IEEE.

3. Y. Alp Aslandogan et. al.,” Evidence Combination in Medical Data Mining”, Proceedings of the International Conference on Information Technology: Coding and Computing (ITCC’04) 0-7695-2108-8/04©2004 IEEE.


13. Harsh Vazirani et. al.," Use of Modular Neural Network for Heart Disease", Special Issue of IJCCT Vol.1 Issue 2, 3, 4; 2010 for International Conference [ACCTA-2010], 3-5 August 2010, page no. 88-93.


17. Constantinos Koutsojannis et. al., “Using a Neurofuzzy Approach in Medical


33. Shadab Adam Pattekari and Asma Parveen, “Prediction System for Heart Disease using

34. Carlos Ordonez, Edward Omiecinski, “Mining Constrained Association Rules to Predict Heart Disease”, IEEE. Published in International Conference on Data Mining (ICDM), page no. 433-440, 2001.


38. Mohammad Taha Khan, Dr. Shamimul Qamar and Laurent F. Massin, “A Prototype of Cancer/Heart Disease Prediction Model Using Data Mining”, (IJAER), 2012.


**Index Terms**

- Computer Science
- Artificial Intelligence

**Keywords**

Heart disease, Data mining techniques, Fuzzy approach.