Abstract

Diabetes is a disorder that most of the people suffer from and which also leads to death many of the times. Worldwide people suffer from the diabetes and the number is increasing day by day. Type 1 DM, Type 2 DM and Gestational diabetes are the types of diabetes. The main cause is due to prolong existence of high blood sugar level. There are many techniques and methods by which it can be diagnosed like image processing, pattern recognition, microwave tomography and so many and so forth. The present study mainly deals with the review for diagnosing
diabetes in Pima Indians by using various pattern recognition techniques. The study done so far is by using a common database for each technique. While going through the review articles it was found that each different authors have applied different techniques. Some authors introduced new techniques and displayed their results by conducting new experiments and comparing with the old techniques. In which Comparative Disease Profile (CDP) and Separability of Split Value (SSV) gave accuracy of 76.4% and 74.8% respectively. It was also found that in some of the papers the technique was not used only for diabetes but for other diseases or disorder too. But as our aim was to study only on diabetes the results that are given have specifically mentioned in the result column itself with diabetes word specification. Invention of the new techniques gave satisfying result to authors. The above specified results will be much useful for the future study of the current review.

References

- Liping Wei and Russ B. Altman. An Automated System for Generating Comparative Disease Profiles and Making Diagnoses. Section on Medical Informatics Stanford University School of Medicine, MSOB X215.
- Andrew Watkins and Jon Timmis and Lois C. Boggess. Artificial Immune Recognition System (AIRS): An ImmuneInspired Supervised Learning Algorithm. (abw5,jt6@kent. ac. uk) Computing Laboratory, University of Kent.
- Stefan R uping. A Simple Method For Estimating Conditional Probabilities For SVMs. CS Department, AI Unit Dortmund University.
- Lawrence O. Hall and Nitesh V. Chawla and Kevin W. Bowyer. Combining Decision Trees Learned in Parallel. Department of Computer Science and Engineering, ENB 118 University of South Florida.
- Ilya Blayvas and Ron Kimmel. Efficient Classification via Multiresolution Training Set Approximation. CS Dept. Technion.
- Krzysztof Grabczewski and Wl/odzis/aw Duch. THE SEPARABILITY OF SPLIT VALUE CRITERION. Department of Computer Methods, Nicolaus Copernicus University.

Index Terms

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