Abstract

Diabetes is one of the most common and dramatically increasing metabolic diseases causes the increase in blood sugar. The patient having high blood sugar either caused by the body failure to produce enough insulin (type 1) or the cells failure to respond to the produced insulin (type 2). Since the present medication cannot cure it hence the only way is to estimate the risk of diabetes for each person and take precautions according to the risk factor. This paper presents a Feed forward neural network based approach for the estimation of diabetes risk which estimates the risk factor for any person on the basis of body characteristics (like weight, Blood pressure etc.).

References

- Muhammad Akmal Sapon, Khadijah Ismail and Suehazlyn Zainudin "Prediction of Diabetes by using Artificial Neural Network"; 2011 International Conference on Circuits, System and Simulation IPCSIT vol. 7 (2011)
A Neural Network based Approach for the Diabetes Risk Estimation

- B. Y. Baha, Bank, Yola and G. M. Wajiga "Artificial Neural Networks to Detect Risk Of Type 2 Diabetes", JORIND 10 (2), June, 2012.
- Davar Giveki, Hamid Salimi, Gholam Reza Bahmanyar, Younes Khademian "Automatic Detection of Diabetes Diagnosis using Feature Weighted Support Vector Machines based on Mutual Information and Modified Cuckoo Search".
- "Prediction models for risk of developing type 2 diabetes: systematic literature search and independent external validation study", BMJ 2012; 345 doi: http://dx.doi.org/10.1136/bmj.e5900

Index Terms

Computer Science
Neural Networks

Keywords

Feed forward Neural Network (FFNN) Diabetes Risk Estimation