Abstract

Evidence-based Guideline System is providing an effective process to treating a patient.
totally work on the "Clinical Evidences" which are created by applying data mining techniques on collected data about particular disease and the rule generated by data mining process is further analyze by various medical field experts. These verified rules become the "Clinical Evidence"; then these evidences are used to predict patient disease and provide Clinical guideline related to particular "Clinical Evidence" to patient if Patient medical parameters of disease matching with medical parameter of "Clinical Evidence". In order to obtain the best evidence for a given disease, external clinical expertise as well as internal clinical experience must necessary. In this research Data warehousing and data mining support the creation of the Evidence-based rules by providing a platform and tools for knowledge discovery. Large amounts of data can be analyzed to confirm known or discover unknown trends and correlations in data. In this Dissertation, We will predict Thyroid Disease and giving appropriate clinical guidelines to Doctor to diagnose their patient according to Thyroid "Clinical Evidences". This dissertation is intended to provide a roadmap for achieving sustainable healthcare decision support system based on data warehouses and data mining, facilitating evidence-based medicine that which are used to diagnose patients.

References

- Wen-Hong Chiu, Yuan-Chieh Chang and Hui-Ru Chi, "Exploring Modulating Effect within Evidence based Medicine Realization Based on Service Innovation Model" Sep, 2009 IEEE
- Nevena Stolba and A Min Tjoa, "The relevance of data warehousing and data mining in the field of evidence-based medicine to support healthcare decision making" Dec 2005
- A Candelieri, D Conforti, and A Sciacqua, F Perticone, "Knowledge Discovery Approaches for Early Detection of Decompensation Conditions in Heart Failure Patients" Sep 2009 IEEE
- Candice MacDougall, Jennifer Percival and Carolyn McGregor, "Integrating Health Information Technology into Clinical Guidelines" Annual International Conference of the IEEE EMBS Minneapolis, Minnesota, USA, September 2-6, 2009
- K. Srinivas, B. Kavihta Rani and Dr. A. Govrdhan, "Applications of Data Mining"
Techniques in Healthcare and Prediction of Heart Attacks&quot; International Journal on Computer Science and engineering Vol. 02, No. 02, 2010, 250-255

- Jawai Han and Micheline Kamber, &quot;Data Mining: Concepts and Techniques&quot; Morgan Kaufmann, 2006.

Index Terms

Computer Science  Artificial Intelligence

Keywords

Clinical Evidence  Ebm  Ebgs  Thyroid  K-mean And K-medoid