Abstract

Data Mining (sometimes called data or knowledge discovery) is the process of analyzing data from different perspectives and summarizing it into useful information – making it more accurate, reliable, efficient and beneficial. In data mining various techniques are used - classification, clustering, regression, association mining. These techniques can be used on various types of data; it may be stream data, one dimensional, two dimensional or multi-dimensional data. In this paper we analyze the data mining techniques based on various parameters. All data mining techniques used in various fields for prediction and extraction of useful data or knowledge from a large data base is analyzed and each data mining technique has different performance.

References

11. Chai, EunHeeKim and Long Jin: prediction of Frequent Items to One Dimensional Stream Data; Fifth International Conference on Computational Science and Applications; page353-360, 2001.
12. Y. Chen, G. Dong, J. Han, B.W. Wah, and J. Wang. Multi-dimensional Regression Analysis of Time-Series Data Streams; Proc. Int. Conf. Very Large Databases; Hong Kong, China, Aug. 2002.
13. R. Hayward; A Basic Approach to Linear Regression; RWJ Clinical Scholars Program; pp1-3, University of Michigan, 2005.
21. Qi Luo; Advancing Knowledge Discovery and Data Mining; Workshop on Knowledge Discovery and Data Mining pp:3-5, 2008.
22. Fayyad, Usama; Gregory Piatetsky-Shapiro, and adhraic Smyth; From Data Mining to Knowledge Discovery in Databases. -pp:12-17, June 2008.
Index Terms

Computer Science

Information Systems

Keywords

Data mining, Classification, Prediction, Clustering, Association