Abstract

Stream data mining is the process of excerpting knowledge structure from large, continuous data. For stream data, various techniques are proposed for preparing the data for data mining task. In recent years stream data have become a growing area for the researcher, but there are many issues occurring in classifying these data due to erroneous and noisy data. Change of trend in the data periodically produces major challenge for data miners. This research concentrates on incremental missing value replacement for stream data. The proposed method generates the value for the missing data considering the data type and data distribution. It also considers the concept drift in the data stream. The method is applied to different datasets and promising results derived.
References

- Data preprocessing. CCSU http://www.cs.ccsu.edu/~markov/ccsu_courses/DataMining-3.html
- Cw. flek. cvut.cz/lib/exe/fetch.php/pagesources/ac4m33sad/2_tutorial.pdf.
- Ariel Schlamm, David Messinger, "Improved detection and clustering of hyperspectral image data by preprocessing with a Euclidean distance transformation"; WHISPERs 2011, IEEE, Lisbon, Portugal, June (2011)
- Tony Finch, "Incremental calculation of weighted mean and variance"; February 2009.
- Lukasz A. Kurgan, Member, IEEE, and Krzysztof J. Cios, "CAIM Discretization Algorithm"; Senior Member, IEEE, IEEE transactions on knowledge and data engineering,
Incremental Missing Value Replacement Techniques for Stream Data

vol. 16, no. 2, february 2004
- UCI repository dataset, "http://archive.ics.uci.edu/ml/"
- Weka tool "http://www.cs.waikato.ac.nz/ml/weka/"
- Contact lance data.
  international journal of engineering science & advanced technology;
  ijesat | may-jun 2012.

Index Terms

Computer Science

Databases

Keywords
 Skewness Mean Median Standard deviation Discretization.