Abstract

The proposed model is mining the interesting association rules based on soft set theory. We have introduced a threshold function in the aforesaid model to eliminate the user defined threshold value for minimum support and confidence to discover interesting rules. In addition, a preprocessing step has been carried out for transforming the quantitative data into Boolean-valued data i.e., all entries of the dataset is holding either a value 0 or 1. This method
is validated through a case study on postoperative patient data retrieved from UCI machine learning repository.

References

- Cheung, Y. and Fu, A. 2004. &quot;Mining frequent itemsets without support threshold: With and without item constraints,&quot; IEEE Transactions on Knowledge and Data Engineering.
A Soft Set Model for Interesting Rules: A Case Study on Post Operative Patient Data

- Post Operative Dataset http://archive.ics.uci.edu/ml/datasets/Post-Operative+Patient

Index Terms

Computer Science

Data Mining

Keywords

Soft Set  Association Rule Mining  Interesting Rule