Abstract

Association rule mining is an important component of data mining. In the last years a great number of algorithms have been proposed with the objective of solving the obstacles presented in the generation of association rules. In this work, a new graph based algorithm for associative rule mining which has so many advantages over the existing methods is proposed. It can be used to improve decision making in a wide variety of applications such as: market basket analysis, medical diagnosis, bio-medical literature, protein sequences, census data, logistic regression, fraud detection in web, CRM of credit card business etc.

References

- Agrawal, Rakesh; and Srikant, Ramakrishnan; Fast algorithms for mining association rules in large databases, in Bocca, Jorge B.; Jarke, Matthias; and Zaniolo, Carlo; editors, Proceedings of the 20th International Conference on Very Large Data Bases (VLDB), Santiago, Chile, September 1994, pages 487-499
GARM: A Simple Graph Based Algorithm For Association Rule Mining

- Witten, Frank, Hall: Data mining practical machine learning tools and techniques, 3rd edition
- Webb, Geoffrey I. (2000); Efficient Search for Association Rules, in Ramakrishnan, Raghu; and Stolfo, Sal; eds. ; Proceedings of the Sixth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD- 2000), Boston, MA, New York, NY: The Association for Computing Machinery, pp. 99-107
- Data Mining Concepts and Techniques; Jiawei Han and Micheline Kamber; Second Edition
- Rauch, Jan; Logical calculi for knowledge discovery in databases; Proceedings of the First European Symposium on Principles of Data Mining and Knowledge Discovery 4(2):217-240
- Rakesh Agrawal, Tomasz Imielinski and Arun Swami; "Mining Association Rules between Sets of Items in Large Databases"; Proceedings of the 1993 ACM SIGMOD Conference 4

Index Terms

Computer Science  Algorithms

Keywords
Apriori  Weighted Graph  Association Rule Mining