Abstract

The multi relational data mining approach has developed as an alternative way for handling the structured data such that RDBMS. This will provides the mining in multiple tables directly. In MRDM the patterns are available in multiple tables (relations) from a relational database. As the data are available over the many tables which will affect the many problems in the practice of the data mining. To deal with this problem, one either constructs a single table by Propositionalisation, or uses a Multi-Relational Data Mining algorithm. MRDM approaches have been successfully applied in the area of bioinformatics. Three popular pattern finding techniques classification, clustering and association are frequently used in MRDM. Multi relational approach has developed as an alternative for analyzing the structured data such as relational database. MRDM allowing applying directly in the data mining in multiple tables. To avoid the expensive joining operations and semantic losses we used the MRDM technique. This paper focuses some of the application areas of MRDM and feature directions as well as the comparison of ILP, GM, SSDM and MRDM.
- H. Arno J. Knobbe1,2, Arno Siebes2, Bart Marseille1
- PAN Cao, WANG Hong-Yuan, Multi-relational classification on the basis of the attribute reduction twice, Journal of Communication and Computer, ISSN 1548-7709, USA, Nov. 2009, Volume 6, No. 11 (Serial No. 60)
- de Raedt, L. (Ed.) Advances in Inductive Logic Programming, IOS Press, 1996
- Neelamadhab, Rasmita Data warehousing and OAPL,MRDM technology In the decision support system in the21st century&quot;: , VSRD Technical Journal-VSRD-JCSIT, VOL. 2(3),2012,2010-222
- Dr. Pragnyaban Mishra, Neelamadhab Padhy, Rasmita Panigrahi &quot;CIIT

A. Clare, H. E. Williams, and N. Lester. Scalable multi-relational association mining.
In ICDM, 2004

- S. Dzeroski and N. L. editors. Relational Data Mining. Springer, 2001
- Takashi Washio, Hiroshi Motoda &quot;State of the Art of Graph based Data Mining

- Amaury Habrard, Marc Bernard, and Francois Jacque net,. Springer-Verlag 2003, LNAI 2780
- Qin Ding, Bhavin Parikh., A model for Multi-Relational Data Mining on Demand Forecasting.

Department of Computer Science. Iowa State University (2002).
- Neelamadhab Padhy, Rasmrita Panigrahi; The Survey of Data mining application and Feature Scope; Published in International Journal of Computer Science, Engineering and Information Technology; (IJCSEIT), Vol. 2, No. 3, June 2012.

- Yin, X.; Han J., 2005. Efficient Classification from Multiple Heterogeneous Databases. Knowledge Discovery and in Databases (PKDD&apos;05), 3721, 404-416
- Yin, X.; Han J., Yu,P. S., 2006. Efficient Classification from Multiple Database Relations: A Cross mine Approach IEEE Transactions on Knowledge and Data Engineering, 18(6), 7770-783
- Hong Yu, Xiaolei Huang, Xiaorong Hu, Hengwen CAI &quot;A comparative study on Data mining algorithm for individual Credit risk Evaluation&quot;; IEEE conference 2012.
- D. Chakrabarti and C. Faloutsos, &quot;Graph mining: Laws, generators, and algorithms ACM Comp. Survey;&quot;, vol. 38, no. 1, 2006.

Index Terms

Computer Science
Information Sciences
Keywords
Data Mining  Multi-Relational Data mining  Inductive logic programming  Selection
graph
Tuple ID propagation