Hiding Sensitive Association Rules on Stars

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Authors:

R. D. Chintamani
I. F. Shaikh
A. D. Waghmare

Abstract

Current technology for association rules hiding mostly applies to data stored in a single transaction table. This work presents a novel algorithm for hiding sensitive association rules in data warehouses. A data warehouse is typically made up of multiple dimension tables and a fact table as in a star schema. Based on the strategies of reducing the confidence of sensitive association rule and without constructing the whole joined table, the proposed algorithm can effectively hide multi-relational association rules. Examples and analyses are given to demonstrate the efficacy of the approach.
References


Index Terms

Computer Science Emergent Trends in Technology

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Association Rule; Privacy Preserving; Hiding; Multi-relational; Data Mining