Abstract

The security of the large database that contains certain decisive information, it will become a serious issue when sharing database to the network against unauthorized access. Specifically consider a scenario in which two parties owning confidential databases wish to run a data mining algorithm on the merger of their databases, without revealing any unnecessary information. Our work is motivated by the need to both protect privileged information and enable its use for business or other purposes. Privacy preserving data mining technique is a new research area in data mining and statistical databases where mining algorithms are analyzed for the side effect they acquire in data privacy. Association rule hiding is a worthwhile technique for protecting confidential data and crucial information in a database. Data modification techniques, query auditing methods, statistical techniques are developed and used for protecting the database. Many optimization techniques also used with the data mining concept for protecting the data base. In this paper using ant colony optimization technique with association rule mining for hiding sensitive items in large data base.

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Index Terms

Computer Science
Artificial Intelligence

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Data Mining  Privacy  Rule hiding  Ant colony algorithm.