Abstract

The great development of computer technologies and the Internet have made duplication and distribution of digital information simpler. This leads to a need for effective copyright protection tools. Watermarking database system is considered a vital technique for copyright protection of database systems. In this paper the proposed system is a robust technique to embed and detect watermark in a relational database. In the embedding watermarking stage the watermark is embedded in non numeric attributes for preserving the query results, then is compressed the database for increasing the transfer rate. In watermark detection stage the database will be decompressed, and then the distortion of the embedding watermark will be checked to identify pirated copies of original data. The proposed technique is considered a fully blind and has robustness against various types of attacks specially deletion and sub selection attack.

References

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Index Terms

Computer Science
Security

Keywords
Relational database system; copyright protection; watermarking; non numeric attribute; database attacks