Abstract

In today’s transient world, securing digital assets is very important. For data authentication and integrity of the relational database we have proposed a secure method which uses both
A Unique Approach for Watermarking Non-numeric Relational Database

semantic and syntactic techniques to watermark the tuple in a relation. The Watermarking technique is dependent on secret key and on the relation. The proposed algorithm is based on the concept of predefined signals for ASCII characters. A secret key is generated by using these signals only. To embed a watermark we are using the concept of abbreviations for words and also one syntactic approach, if former technique is not possible. Detection of watermark leads to the authentication and integrity to data. Experimental result shows that, our approach is robust and secure against the various malicious attacks.

References

- Adnan Abdul-Aziz Gutub, "e-Text Watermarking: Utilizing 'Kashida' Extensions in Arabic
A Unique Approach for Watermarking Non-numeric Relational Database


**Index Terms**

Computer Science  
Security

**Keywords**

Watermarking  
Relational Database

Signals