Experimental Study of Improved Watermarking Scheme on Relational Databases

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Authors:
N. G. Pardeshi
J. N. Kale
M. S. Ankoshe

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Abstract

The main objective of watermarking is to protect a digital content from unauthorized redistribution and copying by enabling ownership provability over the content. The goal of digital watermarking is to insert a robust and imperceptible watermark into the digital content such that the mark does not destroy the value of the content, and the mark is hard to be removed by attackers without destroying the utility of content. The measurement of the value of the content is closely related to the data type and its intended use. We have proposed a new marking scheme called as improved watermarking. Watermarking scheme first generates the bit string of fixed length. The mark bit is computed with the help of watermark bit and mask bit, which is used to mark the certain bit location of the attribute value.

References

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Index Terms

Computer Science
Security

Keywords
Digital watermarking  relational database systems  copyright protection  ownership
verification

imperceptibility

robustness

Watermark embedding

Watermark extraction.