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Abstract

Nowadays digital data is increasing and securing these assets is vital. Generating and distribution of digital content via Internet has raised many opportunity for good and bad reasons. Many cases on piracy and privacy are registered for falsification, tampering or forgery on digital data like database, multimedia, document etc. And most important is to protect personal privacy. In view of, these two problems of piracy and privacy our research focused in identification of k-tuples using k-anonymity algorithm and watermarking them. Here, privacy preserved K-anonymity algorithm is modified and developed to identify the sensitive attributes to transfer to other parties after solving the privacy issues. Then, the sensitive attribute is modified to preserve the privacy in a way that to handle the piracy of database. This provides additional advantage of copyright protection along with privacy preservation. After exact identification the sensitive tuples by the k-anonymity algorithm, the tuples will be watermarked based on our embedding procedure.

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Index Terms

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Keywords

Privacy, piracy, k- anonymity algorithm, watermarking