Accidental or intentional distribution of data to unauthorized entity is the data leakage. In business process, it is necessary to send sensitive data to trusted parties. But this data is found at unauthorized place such as website or somebody's laptop. It is very challenging and important to detect leakage when sensitive data is deliberately leaked to others. Traditionally leakage detection is handled by watermarking technique. But it involves modification of data. In this paper for accessing "guilt" of agent a model is developed. Algorithms are presented to distribute objects in such a way that increase the chances of detecting leaker. Finally fake object is included in distributed set using steganography LSB algorithm which do not modify individual members. For the entire set fake object is acting as type of watermark. Major contribution to this system is to develop guilt model using steganography LSB algorithm.

References

- F. Hartung and B. Girod, "Watermarking of Uncompressed and Compressed
Data Leakage Detection using Image and Audio Files


Index Terms

Computer Science

Security

Keywords

Data leakage  fake objects  Guilt Model