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## **IMPROVED PRIVACY-PRESERVING P2P MULTIMEDIA DISTRIBUTION BASED ON RECOMBINED FINGERPRINTS**

### **ABSTRACT**

Anonymous fingerprint has been suggested as a convenient solution for the legal distribution of multimedia contents with copyright protection whilst preserving the privacy of buyers, whose identities are only revealed in case of illegal re-distribution. However, most of the existing anonymous fingerprinting protocols are impractical for two main reasons: 1) the use of complex time-consuming protocols and/or homomorphic encryption of the content, and 2) a unicast approach for distribution that does not scale for a large number of buyers. This paper stems from a previous proposal of recombined fingerprints which overcomes some of these drawbacks. However, the recombined fingerprint approach requires a complex graph search for traitor tracing, which needs the participation of other buyers, and honest proxies in its P2P distribution scenario. This paper focuses on removing these disadvantages resulting in an efficient, scalable, privacy-preserving and P2P-based fingerprinting system.

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### **EXISTING SYSTEM:**

- ❖ Most fingerprinting systems can be classified in three categories, namely symmetric, asymmetric and anonymous schemes. In symmetric schemes, the merchant is the one who embeds the fingerprint into the content and forwards the result to the buyer; hence, the buyer cannot be formally accused of illegal re-distribution, since the merchant also had access to the fingerprinted content and could be responsible for the re-distribution. In asymmetric fingerprinting, the merchant does not have access to the fingerprinted copy, but he can recover the fingerprint in case of illegal re-distribution and thereby identify the offending buyer.

### **DISADVANTAGES:**

- ❖ Developing a practical system using this idea appears difficult, because public-key encryption expands data and substantially increases the communication bandwidth required for transfers.
- ❖ Homomorphic encryption constrains the type of mathematical operations which can be performed on the content for embedding, making it difficult to use the more advanced and robust techniques in the data hiding literature.

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### **PROPOSED SYSTEM:**

- ❖ The content is divided into several ordered fragments and each of them is embedded separately with a random binary sequence. The binary sequence for each fragment is called segment and the concatenation of all segments forms the whole fingerprint. The merchant distributes different copies to a reduced set of M seed buyers. The fingerprints of these buyers are such that their segments have low pair-wise correlations. The buyers other than the seed ones engage on P2P transfers of the content in such a way that each new buyer obtains fragments from at least two other buyers. The total number of buyers is  $N \gg M$ .

### **ADVANTAGE OF PROPOSED SYSTEM:**

- ❖ This paper reviews the main features of the proposal suggested, highlights its main drawbacks, and suggests several significant improvements to achieve a more efficient and practical system, especially as traitor tracing is concerned, since it avoids the situations in which illegal redistributors cannot be traced with the proposal.
- ❖ Furthermore, better security properties against potentially malicious proxies are obtained.

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### SYSTEM SPECIFICATION

#### Hardware Requirements:

- System : Pentium IV 2.4 GHz.
- Hard Disk : 40 GB.
- Floppy Drive : 1.44 Mb.
- Monitor : 15 VGA Colour.
- Mouse : Sony.
- Ram : 512 Mb.

#### Software Requirements:

- Operating system : Windows 7.
- Coding Language : ASP.Net with C#
- Data Base : SQL Server 2005.

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