

Practical privacy preserving content Based Retrieval in cloud image Repositories

Abstract:

Storage requirements for visual data have been increasing in recent years, following the emergence of many highly interactive multimedia services and applications for mobile devices in both personal and corporate scenarios. This has been a key driving factor for the adoption of cloud-based data outsourcing solutions. However, outsourcing data storage to the Cloud also leads to new security challenges that must be carefully addressed, especially regarding privacy.

Existing system:

It will be tough to encrypt the sensitive data and store it in the cloud and performing the all computations at the client side. As the data must continuously be downloaded, decrypted, processed, and securely re-uploaded. Many applications cannot cooperate with this overhead, particularly online and mobile applications operating over very large datasets such as image repositories.

Disadvantages:

1. Existing solutions are mostly not work in practical because these are depending upon homomorphism encryption.
2. Applciation performance will be slow because of the network traffic.

Proposed system:

Here we propose a new secure framework for privacy preserving outsourced storage, search, and retrieval of large-scale, dynamically updated image repositories. We base our proposal on IES-

CBIR, a novel Image Encryption Scheme (IES) with Content-Based Image Retrieval (CBIR) properties. Key to the design of IES CBIR is the observation that in image processing, distinct Feature types can be separated and encrypted with different cryptographic algorithms.

Advantages:

1. Security will be provided to the data that is stored in the cloud at the dynamical updating also
2. Application performance will be increased by reducing the network traffic.

SYSTEM REQUIREMENTS

H/W System Configuration:-

- Processor - Pentium –III
- RAM - 256 MB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

S/W System Configuration:-

- Operating System : Windows95/98/2000/XP
- Application Server : Tomcat5.0/6.X
- Front End : HTML, Jsp
- Scripts : JavaScript.
- Server side Script : Java Server Pages.
- Database : MySQL 5.0
- Database Connectivity : JDBC