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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

EPLQ: Efficient Privacy-Preserving Location-based Query Over Outsourced Encrypted Data

ABSTRACT

With the pervasiveness of smart phones, location based services (LBS) have received considerable attention and become more popular and vital recently. However, the use of LBS also poses a potential threat to user's location privacy. In this paper, aiming at spatial range query, a popular LBS providing information about POIs (Points Of Interest) within a given distance, we present an efficient and privacy-preserving location based query solution, called EPLQ. Specifically, to achieve privacy preserving spatial range query, we propose the first predicate only encryption scheme for inner product range, which can be used to detect whether a position is within a given circular area in a privacy-preserving way. To reduce query latency, we further design a privacy-preserving tree index structure in EPLQ. Detailed security analysis confirms the security properties of EPLQ. In addition, extensive experiments are conducted, and the results demonstrate that EPLQ is very efficient in privacy preserving spatial range query over outsourced encrypted data. In particular, for a mobile LBS user using an Android phone, around 0.9 second is needed to generate a query; and it also only requires a commodity workstation, which plays the role of the cloud in our experiments, a few seconds to search POIs.

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EXISTING SYSTEM

The spatial range query, one kind of LBS that we will focus on in this paper, as an example. Spatial range query is a widely used LBS, which allows a user to find POIs (Point Of Interests) within a given distance to his/her location, the query point, with this kind of LBS, a user could obtain the records of all restaurants within walking distance . Then the user can go through these records to find a desirable restaurant considering price and reviews. While location-based services are popular and vital, most of these services today including spatial range query require users to submit their locations.

DISADVANTAGES

- spatial range query require users to submit their locations, which raises serious concerns about the leaking and misusing of user location data.
- Protecting the privacy of user location in LBS has attracted considerable interest. However, significant challenges still remain in the design of privacy preserving LBS, and new challenges arise particularly due to data outsourcing.

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PROPOSED SYSTEM

A novel predicate-only encryption scheme for inner product range named IPRE, which allows testing whether the inner product of two vectors is within a given range without disclosing the vectors. The two vectors contain the location information of the POI and the query respectively. Based on this discovery and our IPRE scheme, spatial range query without leaking location information can be achieved. our techniques can be used for more kinds of privacy-preserving queries over outsourced data. In the spatial range query discussed in this work, we consider Euclidean distance, which is widely used in spatial databases

ADVANTAGES

- EPLQ, an efficient privacy preserving spatial range query solution for smart phones, which preserves the privacy of user location, and achieves confidentiality of LBS data.
- Extensive experiments are conducted, and the results demonstrate that EPLQ is very efficient in privacy preserving spatial range query over outsourced encrypted data.

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SYSTEM REQUIREMENTS:

HARDWARE REQUIREMENTS:

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

SOFTWARE REQUIREMENTS:

- Operating system : Windows XP/7.
- Coding Language : ASP.net, C#.net
- Tool : Visual Studio 2010
- Database : SQL SERVER 2008

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