Abstract

The emerging location-detection devices together with ubiquitous connectivity have enabled a large variety of location-based services (LBS). Location-based services are becoming popular for mobile users. The mobile users’ location plays a key role to provide the service from one side, but it can be considered as a dimension of their privacy and so necessary to keep it anonymous to the other parties. Since one important issue is to achieve an accurate service, it
is important to use the mobile's accurate location. Using the location accurately raises some concerns on behalf of the user's privacy. One solution for meeting this requirement is using by the means of an anonymizer. Anonymizer uses K-anonymity cloaking the user location to K-anonymizing spatial region (K-ASR). Traditional K-anonymity method needs complex query processing algorithms at the server side and have drawback of tracking user and path for mobile users. In this paper we are going to propose a new model for mobile users to retrieve the result quickly and increases users privacy.

Reference


Index Terms

Computer Science
Communication

Key words

Location based services (LBS)  privacy
K- Anonymizing spatial region (K-ASR)
Anonymizer