

250. LOCATION BASED SERVICE WITHOUT REVELING SELF PRIVACY DATA

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In this paper, I proposed to solve problems associated with the location data. The user does not want to send his location data (GPS coordinate) to the server directly, since doing so the server can find the user's location preferences and use that data for advertising the user's privacy is lost. The second part is like the server wants to protect its data from the user query. The server want to return back only relevant data to the user .The server cannot send back other sensitive data to the user. Location Based System (LBS) are used for finding out point of interests (POI) from a specific location. GPS latitude and longitude (GPS Coordinate) input to location servers, the POI can be served back to client from the location server. I propose a major enhancement upon previous solutions by introducing a two stage approach, to achieve a secure solution for both parties. Oblivious Transfer (OT), Private Information Retrieval (PIR), to achieve a secure solution for both parties. The solution we present is efficient and practical in many scenarios. I implement the solution using a real cloud location server and android mobile application.

Key Words:- Obvious Transfer, Point of Interest, Private Information Retrieval, location based query, Private query, Location monitoring, Location based service.

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