Abstract

In today’s world mobile communication has become part and parcel of our daily life. It’s hard to imagine today life without the service and application that are provided by the mobile device. These services and applications are basically wireless based and there is always need of secure communication or some kind of channel. Encryption is one way of providing secure communication but most of the existing data encryption techniques are location independent. And here comes the concept of “Geo-Encryption” or “Location-Based encryption”. It provides an additional layer of security beyond that provided by conventional cryptography. It allows the encryption of data as well as decryption for a specific location(s) or specific area(s) e.g. college campus area or in a particular building. Constraints in time as well as velocity can also be added with respect to the location while encryption. Geo-encryption can be used with both fixed and mobile application and supports wide range of data sharing and distribution policy.
3. Hatem Hamad and Souhir Elkourd, "Data encryption using the dynamic location and speed of mobile node", Journal Media and communication studies, pp. 67-75, 2010

Index Terms

Computer Science Security

Keywords

Cryptography, Geo-Encryption, Location based encryption, Mobile Communications, Mobile Applications, Android Operating System