Abstract

The progress of data exchange in the electronic way increases the requirement of data security. Since data security needs more resources to access stored the information this leads to new mechanism and algorithm. Therefore the researcher interest moves to provide different techniques for security concern. There are various mechanisms available in the literature for images and other concern. If there is use of on-line analytical processing (OLAP) data cube then there is lack of techniques or mechanisms in this area. In present work, a Security Encryption Algorithm for On-Line Analytical Processing (SEAOLAP) data cube. Since data cube provided itself is a technique to find the edges for business concern to any system. These edges are the most important data for any business system. The proposed technique is based on the logarithmic properties and power functions. Through these techniques after encryption we send only mathematical data for electronic communication. Only mathematical data is used in E-communication, which provides the strong encryption key to hide the information.

A Security Algorithm for Online Analytical Processing Data Cube


**Index Terms**

Computer Science

Security

**Keywords**

OLAP  SEAOLAP  Data Cube  e-communication  UML