



## International Journal on Recent Researches In Science, Engineering & Technology

A Journal Established in early 2000 as National journal and upgraded to International journal in 2013 and is in existence for the last 10 years. It is run by Retired Professors from NIT, Trichy.

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Research Paper

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ISSN (Print) : 2347-6729

ISSN (Online) : 2348-3105

Volume 2, Issue 3,  
March 2014

DIIF IF :1.46  
SJIF IF: 1.329

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### Enabling Privacy Over Encrypted Cloud Data Using Apriori Algorithm

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**Abstract** - The cloud customer uses the massive computation power and storage capacity without any need of infrastructure investment to deploy computation and data intensive applications. During such a process, a large set of intermediate data sets are generated and often stored to avoid re computing them. Provide preserving these intermediate sets is challenging one. Encrypting ALL data sets in cloud is widely adopted in existing approaches to address this challenge. But we argue that encrypting all intermediate data sets are neither efficient nor cost-effective because it is very time consuming and costly for data-intensive applications to encrypt /decrypt data sets frequently while performing any operation on them. The proposed system is a constraint-based approach to identify which intermediate data sets need to be encrypted and which do not, so that privacy-preserving cost can be saved while the privacy requirements of data holders can still be satisfied.