

## ***Abstract***

*Really Simple Syndication (RSS) is a content-syndicated system that facilitates people to get the latest update automatically from a site without directly visiting it. RSS allows us to subscribe to a site which provides a feed, commonly a site or blog that is updating or adding its contents regularly.*

*The existing RSS system is publicly accessed by people, so anyone could see the RSS information freely. This is not a big deal for a site or blog which its contents are freely accessed. However, it will become a problem in distributing private information since the information can only be shared among its members.*

*To overcome the problem, we proposed a method to distinguish the information access based on users' privilege by encrypting the <link> element of the distributed RSS feed. The encryption is applied using XXTEA algorithm. Using this method, the proposed RSS system could protect information from unauthorized user. This system has a relatively good performance and level of security. Those are observed from the execution time, memory allocation, avalanche effect values, and the resistance of system to differential cryptanalysis.*

***Keywords:*** RSS, users' privilege, encryption, XXTEA, performance, security