Abstract

In the digital world, which is currently evolving and changing at such a rapid pace, the security of information has become increasingly more important. To preserve the secrecy of the information, cryptography has specific roles to protect files from unauthorized access. In this paper, a new robust and lightweight cryptography algorithm named as LWC to increase security at a cheaper cost in the Symmetric-key producing algorithm. This algorithm ensures data stability, integration and privacy for those data files which are in size around 1 K.B to 512 K.B. Considering the lower time and power consumptions and the hardware capabilities of IoT devices, this solution provides a cheap and effective alternative for them.

References


**Index Terms**

Computer Science  
Security

**Keywords**

LWE, Algorithm, IoT, Security, Cryptography.