Abstract

Data security is an essential component of an organization in order to keep the information safe from various competitors. This project includes the complete step by step implementation of Advanced Encryption Technique, i.e. encrypting 128 bit data using the modification AES-2Keys. The encryption process consists of the combination of various classical techniques such as substitution, rearrangement and transformation encoding techniques. Simulation results have been achieved using MATLAB R2015a; Results prove that the proposed algorithm resists different type of attacks. As a conclusion, the addition of an arithmetic operation and two keys don’t effect on time of transmission data but makes the data more secure.

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**Index Terms**

Computer Science                      Information Sciences

**Keywords**

Cryptography, Advance Encryption Standard, Cipher Text, Plain Text.