Abstract

Today the worldwide activities of various organizations, enterprises and institutions, general agencies and individuals are done through Internet. The fast evolution of digital data exchange, security information becomes much important in data storage and transmission. The dramatic increase of data theft is a concern for the Internet community as a whole. Cryptography allows people to carry over the confidence found in the data transaction electronic world; Everyday thousands of people interact electronically, whether it is through e-mail, e-commerce, E-banking or overall data transformation using Internet. The perpetual increase of information transmitted electronically has led to an increased reliance on cryptography. Advanced Encryption Standard algorithm provides high security to information on networks. Further secure key mixing based Advanced Encryption Standard (KAES) algorithm is proposed by modifying the classical Advanced Encryption Standard algorithm. This algorithm is based on secure keys of 12 digit numeric key (Mobile Number). KAES algorithm using shift rows are cyclically shifted random generation values based and create new password sent to communicators mobile. KAES algorithms ensure the improved encryption performance, high secure and less encryption, decryption time. KAES algorithm is highly secure while improving the efficiency of cryptography algorithms.
References


Index Terms

Computer Science
Algorithms

Keywords
Secure key Standard Encryption algorithm Data security Data integrity privacy