Abstract

The well known multiple letter encryption cipher is the Playfair cipher. Here the digrams in the plaintext are treated as single units and converted into corresponding cipher text digrams. However because of the drawbacks inherent in the 5*5 Playfair cipher which adversely affects the security we proposed an 8*8 Playfair cipher. For details one can refer to [1]. This paper
analyses the new proposed system. For this we have carried out cryptanalysis and through the avalanche effect we find out that the proposed cipher is a strong one.

Reference


Index Terms

Computer Science

Security

Key words

Playfair cipher matrices Special symbols Random

number

Cryptanalysis

Brute force

Polyalphabetic cipher.
A Novel Approach to Security using Extended Playfair Cipher