Abstract

In this paper, a new technique for protected and locked broadcasting of message is presented. This approach uses improved version of ciphering with the combination of double phase encryption. To ripen this method of encryption, a simple technique of vertically selecting the text for ciphering is used. A 6 x 6 matrix based on the alphabets used in the text message. If the message is lengthy, the matrix can duplicate itself accordingly. Message will be fit in the matrix and remaining cells of the matrix will be filled by alphabets. After getting vertically scrambled text, substitution techniques for ciphering is used further to ensure secured transfer of message. The receiver will get to know about the length of the text and shift key for decryption procedure. By using this double phase encryption, the transmission of message will become more secure and robust. The main target of the technique proposed in this paper is that the information cannot be customized by any outsider or intruder.

References

Vertically Scrambled Caesar Cipher Method

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Index Terms

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Keywords

Caesar cipher vertically scrambled text encryption decryption double phase encryption method.