Abstract

The essential aspect of secured communications is secret key cryptography. The key selection mechanism and the encoding methodology determine the efficiency of the cipher text generated. In this paper, RSU algorithm is proposed which encodes the message by using reversible Boolean functions and combinatory. In this method, same keys are used for both encryption and decryption. The plaintext and secret keys are modified before encryption. This increases the complexity of deciphering the cipher text by intruders. Thereby it provides extremely better security for data.
References

- Andrew S. Tanenbaum, "Computer Networks" (4th Edition), Prentice Hall
- BANGALORE G. Tilak, JAIN Vinod Kumar, HEBBAR K. Shreedhar, "Enciphered Data Steganography Using Secret Key"; JEEE, University of Oradea Publisher, Volume 3, Number 2, October 2010
- http://en.wikipedia.org/wiki/Magic_square

Index Terms

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Keywords

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