Abstract

The aim of our research is to develop a new framework for secure block cipher generation using color substitution and permutations on alphanumeric letters, symbols, images, diagrams or any kind of text. To transfer the keys from source to destination we have used RSA public key algorithm and for encryption / decryption of the information, we have used our invented
‘play color substitution’ algorithm. Importance of RTF will be explained, Cryptanalysis attacks were discussed and shown that the cipher cannot be broken by any cryptanalysis attacks.

Reference

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Index Terms

Computer Science  Security
**Key words**

RSA

PUB: Public key of user B

PRA: Private Key of user A

PUA: Public key of user A

PRB: Private key of user B

PCC: Play color cipher

RTF: Rich text format

LHS: Left hand side

RHS: Right hand side.