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A NEW VARYING CIPHER FOR SYMMETRIC KEY CRYPTOSYSTEMS

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ABSTRACT

Data encryption is one of the widely used methodologies to ensure the data confidentiality in cloud environment. Most of the proposed methods which generate cryptographic algorithms are weak, and slow. Another important problem in the proposed methods is to replace bits which lead to improvement in the performance of cryptographic algorithms. Chosen-plaintext, chosen- cipher text attacks on symmetric-key encryption schemes giving adversary actions to predict the original message or the key. We proposed new Varying Cipher to reduced or increased the plain text before producing the cipher text. The same way the key size is increased or decreased according to the size of both plain text and varying text size. The block size is also increased or decreased the size of only varying text. In this paper we explain the proposed cryptosystem processing data as plaintext and produce the cipher text with duplicate text symbols. The expectation is the diagonal process enforce generation of highly complex, immunized, and resistant cipher text which is infeasible to break or cryptanalysis.

KEYWORDS: *Varying Cipher, Symmetric Key Cryptography, Oscillation, Key Generation*