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ABSTRACT

THE IMPLEMENTATION OF ALGORITHMS COMBINATION OF STREAM CIPHER AND ROTATE 13 FOR DATA SECURITY

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The issue of data security and confidentiality is one of the important aspects of data, messages and information. Stream Cipher is often referred to as a stream cipher. The advantage of this method is relatively faster in the encryption-decryption process and is also not limited by the length of the plaintext. ROT13 is a substitution cipher encryption by shifting characters forward 13 times, counting 1 character in front of it, and shifting characters based on the order of characters in ASCII table. By combining the Stream Cipher and ROT13 algorithms, it produces a method that can provide a better level of security compared to the implementation of each method separately. The results of the analysis and testing carried out using different decryption keys resulted in the chipper text cannot be returned which shows normal things because the method used is symmetric cryptography so that the decryption process can only be done using the same key as the key during decryption.

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