TEXT HIDING USING RSA AND BLOWFISH ALGORITHMS WITH HASH-BASED LSB TECNIQUE

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ABSTRACT

Every confidential information like bank details, university details, shopping mall details etc., needs security today. There are many techniques like cryptography and steganography to provide security to the important information by hiding the data in some way. The process of hiding may include converting the original data into cipher text or may be hiding the text or image or video by another text or image or video. In this paper we mainly provided the security for information in the form of text by using both cryptography and steganography combinely. Our paper describes the process of converting the text into cipher text using a cryptographic technique called RSA algorithm. This cipher text will be encoded by calculating the pixel positions to embed the cipher text into an image using an insertion technique called Hash-LSB encoding. This encoded image will now be encrypted into non-viewable image using BLOWFISH algorithm. The retrieval of the plain text will also be shown by using decryption algorithms of RSA and BLOWFISH.

KEYWORDS: Cryptography, Steganography, RSA algorithm, HLSB, Blowfish Algorithm