

## **CRYPTOGRAPHY COMBINED WITH STEGANOGRAPHY FOR ENCRYPTION: STUDY AND COMPARISON**

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### **ABSTRACT**

Internet is a big means for transferring lot of data in the form of images, text, and all multimedia. Data security is a major concern in terms of its availability, confidentiality and authentication goals. Communication channel security also plays an important role, but channel can be compromised so there is need of data security. Images serve a means for transferring lot of data secretly, many techniques have been proposed which use images to carry lot of secret data for this encryption is best method. Cryptographic algorithms include symmetric and asymmetric techniques and hash function for encryption purpose. The paper discusses techniques that use RSA, DES, AES, MAES algorithms applied on images along with orthogonal transforms for Image. The comparison parameters considered here are the cryptographic techniques, algorithm applied, type of algorithm and performance parameter.

**KEYWORDS:** AES, Correlation Coefficient, DES, DWT, Encryption, Hash Function, PSNR