Abstract

Steganography is defined as the study of invisible communication. Steganography usually deals with the ways of hiding the existence of the communicated data in such a way that it remains confidential. It maintains secrecy between two communicating parties. In image Steganography, secrecy is achieved by embedding data into cover image and generating a stego-image. Everyday the development of internet communication is increasing in which the security of information is very important. Various techniques are used to hide data in different formats in steganography. Due to the simplicity of the least significant bit (LSB) substitution method, it is used to protected the data by converting data in digital image. This paper proposes a new data hiding technique for data to be secured which moves from sender to receiver. It gives more security in hiding data and more data can be secured via this technique. A stego image is used in it due to which a secure transmission of information is taken place without the distortion of the image. It is a secure way to keep the data confident. In this paper, we achieved a higher security than the previous work by using the multi key rather than the single key for decrypting the data in the Steganography image. We also compare the result in terms of PSNR, RMSE,
MSE between the proposed work and previous work and got a better result analysis.

**References**

7. Sudhir Goswami, Jyoti Goswami, Rajesh Mehra, IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE-2014), May 09-11, 2014, Jaipur, India.

**Index Terms**

Computer Science                Distributed Systems

**Keywords**