

## Image Steganography Using Least Significant Bit Technique

**Authors :** Preeti Kumari, Ridhi Kapoor

**Abstract :** In any communication, security is the most important issue in today's world. In this paper, steganography is the process of hiding the important data into other data, such as text, audio, video, and image. The interest in this topic is to provide availability, confidentiality, integrity, and authenticity of data. The steganographic technique that embeds hides content with unremarkable cover media so as not to provoke eavesdropper's suspicion or third party and hackers. In which many applications of compression, encryption, decryption, and embedding methods are used for digital image steganography. Due to compression, the noise produces in the image. To sustain noise in the image, the LSB insertion technique is used. The performance of the proposed embedding system with respect to providing security to secret message and robustness is discussed. We also demonstrate the maximum steganography capacity and visual distortion.

**Keywords :** steganography, LSB, encoding, information hiding, color image

**Conference Title :** ICAET 2015 : International Conference on Aerospace Engineering and Technology

**Conference Location :** Rome, Italy

**Conference Dates :** September 17-18, 2015