Abstract

In this paper a novel method for information security using image steganography technique is proposed. This project simply hides a text message in an image file. For hiding secret information in images, there exist a large variety of steganographic techniques some are more complex than others and all of them have respective strong and weak points. Different applications have different requirements of the steganography technique used. For example, some applications may require absolute invisibility of the secret information, while others require a larger secret message to be hidden. This work intends to give an overview of image steganography, its uses and techniques. The proposed method uses the LSB (Least Significant Bit) technique to hide information in the cover image. The system enhanced the LSB technique by randomly dispersing the bits of the message in the image and thus making it harder for unauthorized people to extract the original image. Discrete logarithm calculation technique is used for determining the location of the bit into pixel to embed the message. The proposed algorithm provides a stego-key that will be used during the embedding and extracting of the message.
References

5. Richard Popa “An Analysis of Steganographic Techniques”.
6. Adnan Gutub, Mahmoud Ankeer, Muhammad Abu-Ghalioun, Abdulrahman Shaheen, Aleem Alvi “Pixel Indicator High Capacity Technique for RGB Image Based Steganography”.

Index Terms
Computer Science
Information Sciences

Keywords

Information security, Steganography, Discrete logarithmic dispersion