Abstract

Communication over the internet is facing some problems such as data security, copyright control, authentication etc. Here we introduce a novel scheme for separable data hiding when lossy image used as a cover media. This paper illustrates the various objectives of implementing separable lossy data hiding technique. The system is consists of three steps in the first step encryption of the cover image using an encryption key. Then, a data-hider hides the message image (secure data) into encrypted cover image using a data-hiding key. The third step is to extract the message image and recover the original image. The actions i.e. extracting the message image and recover the original images are depends upon which key the receiver has. There is separation of these two actions according to availability of keys. The
scheme's key feature is the way of getting lossy image after decryption and data extraction processes. Here we are concentrating on using RGB-LSB method for data embedding and finally verifies the performance of using RGB-LSB method in terms of data capacity as well as image quality.

References


Index Terms

Computer Science

Network Security
Keywords

Image Encryption  Rgb-lsb  Image Recovery  Reversible Data Hiding  Lossy Image Encryption Key
Data-hiding Key