Data hiding and Image Encryption using Matlab

Abstract:

Data hiding is a process of hidden embedding data into data sources, and encryption is a method of providing privacy protection such as confidentiality, safety of integrity and authentication of data.

In our project we'll be hiding data ideas for encrypted images which will include, encryption of image, embedding of data and extraction of data. This will consist of two phases, the encryption phase and the decryption phase. In the encryption phase, the encrypted image will have an encryption key associated with the data to be embedded, with the data hiding key. In decryption phase the embedded image is extracted and decrypted with encryption key. The encrypted data is extracted and decryption is made using the data hiding key.

The project objective is to provide an efficient data hiding technique and Image Encryption in which data and image can be retrieved independently.