ABSTRACT

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Concealing secret message in an image using NUAIS and secret image sharing algorithm

The secret text message is to be transmitted by initially encrypting it to cipher text and later concealing it in a colour bit-map image by using Non Uniform Adaptive Image Segmentation (NUAIS) and secret image sharing scheme. These steganography techniques are to be used to work against visual and statistical attacks.

The current abstract focuses on using encryption algorithm to create a cipher text which is to be embedded in a cover image. The cover image is subjected to Non Uniform Adaptive image segmentation, where the image is divided into various segments using the input password provided by the user. Later the cipher text is concealed into various segments of the cover image. This initial stego-image is then subjected to secret image sharing scheme where the stego- image is again concealed into different images to provide final stego-image. Later a retrieving algorithm is used to obtain the initial stego-image. Finally the cipher text is extracted by using the password used for segmentation. Later, decryption algorithm is used to retrieve the final text message.

The platform used for implementation is JAVA and MATLAB.

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