

IMAGE STEGANOGRAPHY

DEGREE PROJECT REPORT



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CERTIFICATE

We accept the work contained in the degree project report titled “Image Steganography” as a confirmation to the required standard for the partial fulfillment the degree of BEE.

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DEDICATED

I dedicate this thesis to my father Muhammad Ijaz and my mother Naveeda Ijaz who are the first teacher of my life and the pillar of strength in my career. I wish my deepest and most sincere gratitude to them for their prayers, support and encouragement throughout my life. May Allah bless them (Ameen). Without their encouragement, love and support, I would not have been able to reach this stage of my life. I am indebt to them for the sacrifices they made to help me in achieving this success.

ABSTRACT

The intensification of applications used in World Wide Web has triggered the urge to increase the security of data communication over the unsecured internet. Steganography is one of best fit techniques to secure the open environment of internet. It is a technique of hiding information within every medium that can be expressed in digital form (images, video and audio). Steganography has evolved into a practice of concealing information in so that no one can find the important information that is hidden in it.

In this work, I present a LSB-based steganography technique that accredits to hide encrypted version of image into another image while maintaining acceptable image quality, using Matlab. Last significant bit is replaces by the algorithm to obscure the data. Visual and attacks on statistics is controlled by this algorithm and it provides large capacity of steganography. It will provide a mechanism to secure a data from hackers.

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