Steganography in 3D Models of Photos

Eng. Basem Soleman Yousef *

Dr. Eng. Mhd .Aiman Al Akkad**

Dr. Imad Fatash^{***}

Abstract

Steganography is the science of hiding the data required to send into data files, images, voice, or video .Previous research in this field used 2D models, but we will refer in this project to the study and implementation of steganography algorithms which depend on 3D images as a cover file, as it offer when used precision and speed in addition to offering capabilities are not offered by 2D methods .So we ought to follow a thorough research methodology, which finally led to a method to achieve the process of embedding the information in 3D models of images, and then retrieving this information .This method has been named according to the mechanism used for achieving the embedding process as steganography algorithm based on shifting.

Keywords :Steganography, 3D images, Information Embedding, Information Retrieval, and Steganography Algorithms

For the abstract in Arabic see pages (151-164).

^{*}Paper prepared to obtain a Master degree in Computer Engineering and its Networks

^{**}Damascus University -Faculty of Mechanical &Electrical Engineering - Department of Computer Engineering and Automation

^{****} Damascus University - Faculty of Mechanical &Electrical Engineering - Department of Basic Science