URN etd-0407109-183714-1103
Author Ching-Jung Cheng
Author's Email Address No Public.
Statistics This thesis had been viewed 57 times. Download 20 times.
Department
Year 2006
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title The Design and Implementation of Reversible Data Hiding
Date of Defense 0000-00-00
Page Count 52
Keyword
Reversible Data Hiding
Cover-image
Stego-image
Histogram
Differencing method

Abstract
In this era with developed internet, the security of information becomes more and more highly valued. Therefore, many professionals and experts start to join the study of the information security field. Data hiding then becomes one of the subjects. Data hiding, as implied by the name, means hiding the information to be sent and making them unnoticed, so the purpose of security transmission can be achieved. Recently, reversible data hiding has been broadly mentioned, and the biggest feature is that when the hidden data are extracted, their original image can still be recovered, for achieving the effect of reversibility. By doing so, the important images can hide data within without being damaged and help them correctly identify their original status. This paper is to propose some ways of reversible data hiding to recover their original images after the secret data being abstracted in images. The first way to achieve the effect is to use Histogram proposed so far; however, the capacity for hiding by the proposed Histogram is quite limited. Histogram mentioned in this study can effectively expand the capacity for hiding to improve the difficulty of limited capacity of Histogram data hiding. Then, using differencing method to hide, the disadvantage that reversible data hiding could not achieve bigger capacity of data hiding. So the condition of largely increase the capacity for data hiding could relatively contrast the value of this study.
Advisory Committee - advisor

- advisor

Files etd-0407109-183714-1103-001.pdf

indicate access worldwide
Date of Submission 2007-07-18