

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال الله تعالى:

وَقُلْ أَعْمَلُوا فَسِيرَى اللَّهِ عَمَلِكُمْ وَرَسُولِهِ وَالْمُؤْمِنُونَ وَسُتَرَدُّونَ إِلَىٰ عِلْمِ
الْغَيْبِ وَالشَّهَادَةِ فَيُنَبِّئُكُمْ بِمَا كُنْتُمْ تَعْمَلُونَ ﴿١٠٥﴾

الآية (١٠٥) سورة التوبة

صدق الله العظيم

Dedication

To my parents

The two lights of my life

Who gave me alot ,

and miser me not.

To all those whom I love.

Acknowledgement

First, I would like to thank Allah, the Merciful, for giving me the power and health to do this work.

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Abstract

Due to the rapid development in communication and multimedia technology, different techniques are used for copyright protection and monitoring illegal copying of these media. One of the most important techniques is digital watermarking.

As a result of the development in data transfer technology a cross multimedia and internet, it has become possible to access and copy these information in unauthentic manner. This leads to penetrate digital multimedia security problem.

In this research I used the technique DWT discrete wavelet transformation is used in images and it gives good results in increasing the amount of generated information,

Increase the efficiency of the image, increase reliability, and reduce the uncertainty surrounding some of the features in the images which are not clear.

The method efficiency is measured using Peak Signal - to - Noise Ratio (PSNR) and mean squared error (MSE).

المستخلص

إن التطور السريع في مجال الإتصالات وتقنيات الوسائط المتعددة أدى إلى الحاجة إلى إستخدام تقنيات لحماية حقوق الملكية ومراقبة النسخ غير الشرعي لتلك الوسائط ومن أهم هذه التقنيات هي العلامة المائية الرقمية.

نتيجة للتطور في مجال تكنولوجيا نقل البيانات عبر الوسائط المتعددة والإنترنت قد أصبح من الممكن للوصول إلى هذه المعلومات والنسخ بطريقة غير مشروع. وهذا يؤدي إلى إختراق أمن الوسائط المتعددة الرقمية.

في هذا البحث استخدمت تقنية (DWT) لحماية وموثوقية الصور وأعطت نتائج جيدة في زيادة كفاءة الصورة وزيادة الموثوقية والحد من الغموض الذي يلف بعض الميزات الموجودة في الصور التي ليست واضحة وبعد ذلك تم قياس الكفاءة باستخدام (PSNR) و (MSE).

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List of *Abbreviations*

WWW	World Wide Web
LSB	Least Significant Bit
DCT	Discrete Cosine Transform
DFT	Discrete Fourier Transform
DWT	Discrete Wavelet Transform
MSE	Mean Square Error
PSNR	Peak Signal to Noise Ratio