



Ministry of Higher Education and Scientific
Research
University of Babylon
College of Information Technology
Department of Information Security



Study: (Morning)

Information Hiding Method Based on QR

**A Graduate Project Submitted to the department of Information Security of
the College of Information Technology, University of Babylon, in Partial
Fulfillment of the Requirements for the Bachelor's degree in the Information
Security of Information Technology.**

By

Abdullah Jaafar Mrdan

Supervised by

Dr. Noor fadel Hussain

2023-2024

Abstract

In the rapidly advancing digital era, safeguarding data and information presents a growing challenge, necessitating effective solutions to counter evolving threats. This research focuses on the development of an innovative method for concealing information using Quick Response (QR) codes, aiming to enhance data protection.

The proposed solution involves embedding information within QR codes using advanced concealment techniques, rendering the data invisible and not easily detectable. This method allows users to transfer information securely and privately, with the ability to decipher the code using a private key.

The efficacy of the proposed method was tested, and the results analyzed, demonstrating its effectiveness in concealing information and ensuring its security. Additionally, the impact of the method on data transfer performance was studied, striking a balance between security and efficiency.

In short, this project offers an innovative and effective solution to the challenge of protecting information using QR technology, which contributes to improving data security and providing a secure means of transferring information. It relies on converting confidential data into a QR code for this purpose to hide it, which was implemented using QR Code Model 2.