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## ROBUST INVISIBLE QR CODE IMAGE WATERMARKING IN DWT DOMAIN

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**ABSTRACT:** Quick Response (QR) code is 2d code and widely used in magazine advertisement, product packet, museum, and tour tickets. It has high data capacity compare to 1d code. The invisible QR code is watermarked via popular wavelet transform algorithm in images. The results show that the proposed method is robust and tested against attacks.

**KEYWORDS:** QR code, watermarking, Wavelets.

### I. INTRODUCTION

In this modern era mobile and wireless technology is taking over all fields of life. They are more than a communication device; they act as your PC, music player, your bank, your shopping area and more [1]. In near future the smart glasses like google glass are going to replace the current hand held devices which make to overlay the physical world with a digital layer of tags, ads, maps etc [2].

In current smart phone scenario, one of the important technology used to connect the physical world to internet or digital world using smart phone, is QR codes. They are used mainly for marketing and commerce but their applications are numerous including virtual marketing, virtual maps, QRpedia etc. We are making the QR code as invisible watermark in image using digital watermarking technology. Other alternatives proposed were marking QR code in invisible ink which is only visible with Ultraviolet [3], QR transparent stickers etc.

The main challenge in making invisible QR code is the detector part. Since the detection is expected to be done in smart phone which has slower processors, the detection must be very simple with very little processing required before passing information to QR reader. Here we implement and simulate the QR encoder and decoder in MATLAB to study the effectiveness of algorithm. This paper uses watermarking scheme in wavelet domain where multiple copies of QR code is inserted into low frequency components of host image. Since the data requires no secrecy compared to existing watermarking schemes, public watermarking technique is used [4] [5] [6].

# Invisible Watermarking Matlab Source Code

**Indrani Bhattacharya, Satyajit  
Chakrabarti, Haricharan Singh  
Reehal, Vasudevan Lakshminarayanan**

**Invisible Watermarking Matlab Source Code:**

The book delves into Invisible Watermarking Matlab Source Code. Invisible Watermarking Matlab Source Code is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Invisible Watermarking Matlab Source Code, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Invisible Watermarking Matlab Source Code
- Chapter 2: Essential Elements of Invisible Watermarking Matlab Source Code
- Chapter 3: Invisible Watermarking Matlab Source Code in Everyday Life
- Chapter 4: Invisible Watermarking Matlab Source Code in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Invisible Watermarking Matlab Source Code. The first chapter will explore what Invisible Watermarking Matlab Source Code is, why Invisible Watermarking Matlab Source Code is vital, and how to effectively learn about Invisible Watermarking Matlab Source Code.

3. In chapter 2, the author will delve into the foundational concepts of Invisible Watermarking Matlab Source Code. This chapter will elucidate the essential principles that need to be understood to grasp Invisible Watermarking Matlab Source Code in its entirety.

4. In chapter 3, this book will examine the practical applications of Invisible Watermarking Matlab Source Code in daily life. This chapter will showcase real-world examples of how Invisible Watermarking Matlab Source Code can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Invisible Watermarking Matlab Source Code in specific contexts. This chapter will explore how Invisible Watermarking Matlab Source Code is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Invisible Watermarking Matlab Source Code. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Invisible Watermarking Matlab Source Code.

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