Title – As is

Abstract

Contents – As is

Chapter 1: Introduction

* 1. Introduction

Write a short “story” about why one would want to use self-recovering (include a definition on self-recovering here). Then what are the issues with current self-embedding techniques? Basically explain the need for your research.

* 1. Problem statement

Briefly, but concisely explain what you are trying to solve with this research. Preferably list one or two research questions in bulleted form so that at the end of the research you can refer back to these questions and give an exact answer of “Yes I solved the problem”, or “No I didn’t and here’s why...”

* 1. Research methodology

Where did you start? Always with a “literature study to obtain background information on the topic of self-embedding etc.”

And then? How did you continue? Did you do a survey? Interviews? Build a machine? Write an application? What did you use to solve the problem and to give results? In your case you wrote a software application, so just briefly state this in a sentence.

* 1. Terminology

Your section 1

Chapter 2: Self-embedding

2.1 Introduction

Self recovering images are...

In order to understand the self-recovering system proposed in this dissertation, one has to understand the underlying technologies. This chapter will define look at image steganography in more detail in section 2.1 and at watermarking in section 2.2. Self-embedding and recovery will then be discussed in section 2.3 with a conclusion in section 2.4 🡪 Do this for every chapter.

2.2 Steganography

Formal definition

Why/how does it differ from cryptography? How does it differ from watermarking?

Why is it relevant to your research?

What are the requirements of steganography that is normally important? Invisibility, payload capacity etc. – define each one

Explain LSB embedding – you refer to it a couple of times and the reader may not have an idea of how it works

Explain BPCS steganography – your section 4.1

2.3 Watermarking

Formal definition of watermarking.

Fragile watermarking – what is it and why is it relevant to your research?

Do not yet refer to how you will use it in your proposed method. This can be left for another chapter

2.4 Self-embedding and recovery

What is it etc?

I would just put your section 2.5, 2.5.1 and 2.5.2 here without any subparagraph.

2.5.2 would however now change since you already explained BPCS in section 2.2, but you can now just say that BPCS is an example of such a high capacity embedding algorithm and that is why you will be using it.

2.5 Conclusion

What did you do in this chapter? In this chapter important background information was given on steganography, watermarking, self-embedding and recovery etc. The next chapter will discuss related work in existing self-embedding techniques. 🡪 Do this for each chapter

Chapter 3: Related work in self-recovering schemes

3.1 Introduction – see 2.1

3.2 Overview of current self-recovering schemes

This section looks at three different self-recovering schemes and discusses them based on PSNR, tampering rate etc. Define those terms here if you have not yet defined them earlier in the paper

3.2.1 Erasure channel... and the rest as is

3.3 Comparison

3.4 Conclusion

Chapter 4: The proposed self-recovering system

4.1 Introduction – see 2.1

4.2 Overview of the proposed system

The self-recovering scheme proposed in this dissertation uses BPCS steganography to increase the payload capacity of the cover image in order to be able to embed more reference content into the image without introducing visual distortion – or something similar. In addition a fragile watermark was used to detect which parts of the image was used...

I think perhaps a graph or figure of some sort would be beneficial here.

4.3 Embedding

In the embedding phase BPCS steganography and fragile watermarks were used. How these two technologies were implemented are discussed in sections 4.3.1 and 4.3.2

4.3.1 BPCS Steganography

Here you can add anything from the existing chapter that was not mentioned in Chapter 2 because it was perhaps too specific for Chapter 2. So any considerations/alternations etc that was made with specific reference to the proposed system

4.3.2 Fragile watermark

4.4 Extraction and reconstruction

Minor changes

4.5 Conclusion

Chapter 5: Experimental results

5.1 Introduction

5.2 Experiments conducted

As is, however I suspect that some of the existing information (for example the definition of PSNR etc.) would have by now moved to earlier locations

5.3 Interpretation of results

Minor changes

5.4 Conclusion

Chapter 6: Conclusion

6.1 Introduction

6.2 Future work

List of references