Report Title

- Subtitle -



Department of Electronic Systems Vision, Graphics and Interactive Systems 9^{th} Semester project Fall 2012 Maxime Coupez Kim-Adeline Miguel Julia Alexandra Vigo





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Project Title

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Abstract:

Since the last decade, a lot of researches have been carried out about emotion recognition. The number of projects conducted in this field demonstrates the interest and the importance of systems which can recognize human mood.

In this project, an emotion recognition system is developed, using a Microsoft Kinect. This recognition is achieved in 3 steps: Face detection, extraction and classification of facial features, this structure being the usual modus operandi in emotion recognition research.

Face detection is performed using Viola-Jones' algorithm, then Local Binary Patterns (LBP) are used to extract facial features. Finally, Support Vector Machines (SVM) classify these features into six predefined emotions.

The system is implemented to run on a computer using a Kinect and works for one person in front of it. The classifier is trained with the Cohn-Kanade database, which includes enough different faces to obtain a satisfying result.

The content of this report is freely available, but publication (with reference) may only be pursued due to agreement with the author.

Preface

Here is the preface. You should	You should put your signatures at the end of the preface.			
	Aalborg	g University,	October 5, 2012	
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Contents

Pı	Preface		
1	Introduction 1.1 Examples	3	
2	Chapter 2 name	5	
3	Conclusion	7	
\mathbf{A}	Appendix A name	9	

2 Contents

Chapter 1

Introduction

Here is the introduction. The next chapter is chapter 2.

1.1 Examples

You can also have examples in your document such as in example 1.1.

Example 1.1 (An Example of an Example)

Here is an example with some math

$$0 = \exp(i\pi) + 1 \ . \tag{1.1}$$

You can adjust the colour and the line width in the macros.tex file.

1.2 How Does Sections, Subsections, and Subsections Look?

Well, like this

1.2.1 This is a Subsection

and this

This is a Subsubsection

and this.

A Paragraph You can also use paragraph titles which look like this.

Is it possible to add a subsubparagraph?

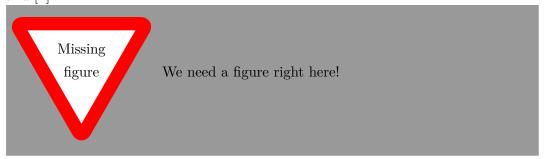
A Subparagraph Moreover, you can also use subparagraph titles which look like this. They have a small indentation as opposed to the paragraph titles.

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Chapter 2

Chapter 2 name

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Chapter 3

Conclusion

In case you have questions, comments, suggestions or have found a bug, please do not hesitate to contact me. You can find my contact details below.

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Appendix A

Appendix A name

Here is the first appendix