JⴸU

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Application of AI in Warehouse Scheduling Optimization Problems

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Artificial Intelligence

Abstract

Zusammenfassung

Contents

1 Introduction

1.1 Subsection

1.1.1 Subsubsection

2 Additional Chapter

2.1 Additional Chapter Level 2

2.1.1 Additional Chapter Level 3

3 Introduction to LaTeX

Since LaTeX is widely used in academia and industry, there are many free introductions to the language. There is the wiki guide at `https://en.wikibooks.org/wiki/LaTeX` and also a guide from the Overleaf Online-LaTeX-Editor at `https://de.overleaf.com/learn`. This template was created for the Overleaf Online-LaTeX-Editor.

3.1 Basic Functionality

In this section, some examples are given of the basic elements used in a thesis. For most LaTeX commands optional arguments are available, which can be looked up in the various documentations for the commands.

3.1.1 Tables

A `tabular` environment is used to create tables in LaTeX.

Animal Class	Species
Mammal	Elephant Horse Whale Panda
Reptile	Snake Turtle Crocodile
Fish	Shark
Insect	Bee Ant

Table 3.1: Adapted example from the LaTeX guide at `https://en.wikibooks.org/wiki/LaTeX/Tables`. This example uses options from the `booktabs` the `multirow` package.

3.1.2 Images

An image is added to a document with the `\includegraphics` command as shown in Figure 3.1.

3.1.3 Mathematical Expressions

One of the biggest advantages of LaTeX is the creation of complex mathematical expressions. It is possible to insert the mathematical expression inline $\sum_{k=1}^{n} k = \frac{n+(n+1)}{2}$ or outside of the text as

$$\sum_{k=1}^{n} k = \frac{n + (n + 1)}{2}$$

or as numbered equation with

$$\sum_{k=1}^{n} k = \frac{n + (n + 1)}{2}. \tag{3.1}$$

Figure 3.1: JKU Logo

3.2 References

The reference are an important part for any academic/research writing. LATEX supports different types of bibliographies to insert the references. This template uses the **BibTeX** system. The \cite command, makes it possible to reference entries in a .bib file out of the text stream, e.g., as [?]. It is also possible to add citations in captions of figures, tables, and equations, see Figure 3.2
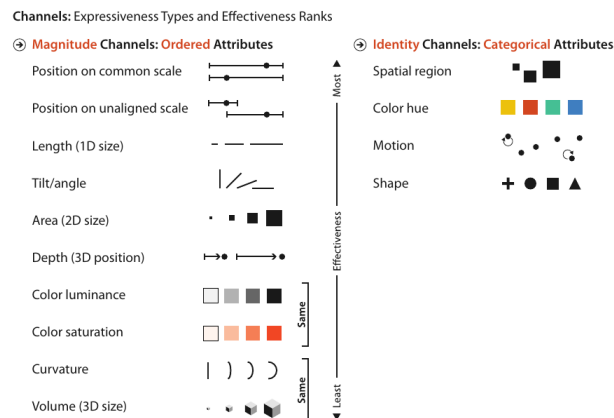

Figure 3.2: The effectiveness of channels that modify the appearance of marks [?]

Eidesstattliche Erklärung

Ich erkläre an Eides statt, dass ich die vorliegende Masterarbeit selbstständig und ohne fremde Hilfe verfasst, andere als die angegebenen Quellen und Hilfsmittel nicht benutzt bzw. die wörtlich oder sinngemäß entnommenen Stellen als solche kenntlich gemacht habe. Die vorliegende Masterarbeit ist mit dem elektronisch übermittelten Textdokument identisch.

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Ort, Datum

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Unterschrift