

# Local Iterative Optimization for Graph Bundling

Bachelor's Thesis

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## Declaration of Authorship

I hereby declare that the thesis submitted is my own unaided work. All direct or indirect sources used are acknowledged as references. The principles and recommendations "Verantwortung in der Wissenschaft" of Heidelberg University have been followed.

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Jan Straub

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## ABSTRACT

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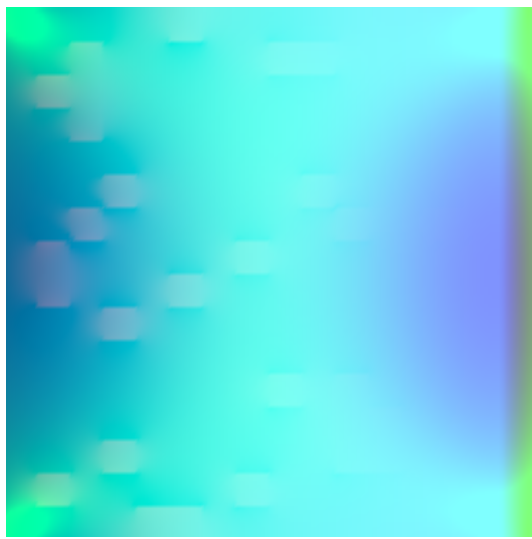
# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Related Work</b>	<b>3</b>
<b>3</b>	<b>Results</b>	<b>7</b>
3.1	Section . . . . .	7
3.1.1	Subsection . . . . .	9
<b>4</b>	<b>Conclusion</b>	<b>11</b>



# 1 Introduction

Today data is often visualized as graphs to make it more readable and easier to understand and access. The problem with this is, that current research creates large datasets and the more data is visualized, the harder it gets to read the resulting graph. This predicament lead to the development of edge bundling techniques. These techniques allow graphs to become more readable and reveal patterns that were previously hidden.



**Figure 1.1:** Do not state the obvious. Do not state the obvious. Do not state the obvious. Do not state the obvious. Do not state the obvious. Do not state the obvious. Do not state the obvious.



## 2 Related Work

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Do not forget to use references [**Hanser2019energy**] like done here [**Hofmann2019dependentVectors**] to enable the bibliography [**Jung2017tumble**; **Sagrista2019GaiaSky**; **Sdeo2018fullerene**; **Zheng2019equivalence**].

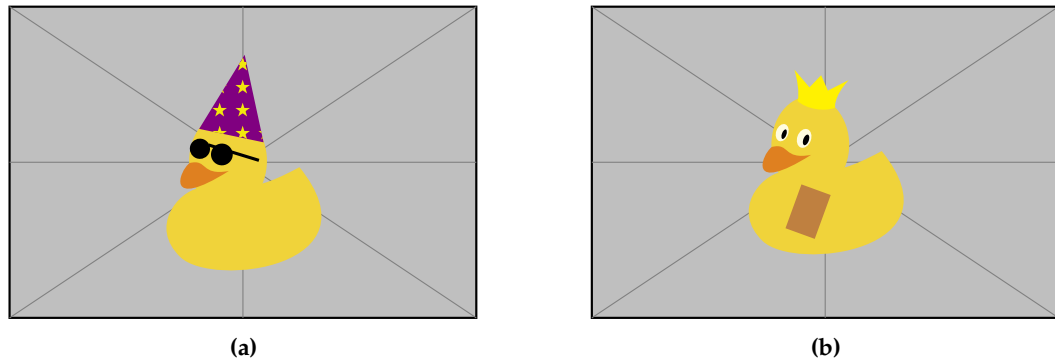
# 3 Results

In [Chapter 3, Section 3.1](#), we will see bla, specifically in [Section 3.1.1](#) this will be emphasized. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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## 3.1 Section

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**Figure 3.1:** Example for two (a) sub-figures (b).

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### 3.1.1 Subsection

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## 4 Conclusion

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