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Workflow Management in Distributed Data and Resource Sharing

Master's Thesis - Data Science - February 2022

I, **Ali Akbar Rehman**, declare that this thesis titled, "Workflow Management in Distributed Data and Resource Sharing" and the work presented in it are my own. I confirm that:

- This work was done wholly or mainly while in candidature for a master's degree at the University of Stavanger.
- Where I have consulted the published work of others, this is always clearly attributed.
- Where I have quoted from the work of others, the source is always given. With the exception of such quotations, this thesis is entirely my own work.
- I have acknowledged all main sources of help.

"Programming is a nice break from thinking." – Leslie Lamport

Abstract

In general, the chapters described below are expected in a bachelor's thesis. Some of the listed chapters may not be applicable to your thesis, and additional chapters covering special topics may be needed. A good approach is to describe each major concept/task in a separate chapter, and describe minor related concepts in sections/subsections within the chapters.

The top-level (numbered) list corresponds to the main chapters. The second level itemization lists the contents that should be covered in that chapter. The headings typeset in **boldface** should be sections on their own. In *italic* are more detailed comments.

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Acknowledgements

I would like to thank my supervisors for their enthusiasm and help with writing this thesis.

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Contents

Introduction

Page budget for Introduction: 3-5 pages.

1.1 Background and Motivation

- Awaken the reader's interest and convince her why the theme is important.
- Background information might be historical in nature, or it might refer to previous research or practical considerations.
- It should be written on a level that it's understandable by anyone with a computer science bachelor's degree.

1.2 Objectives

- · Define the goals of your study.
- It might be presented as a bullet list.

1.3 Approach and Contributions

- Give a brief summary of your overall approach.
- Summarize the specific contributions that you made in this thesis (implementation, empirical results, analysis, etc.).
- It might be presented as a bullet list.

1.4 Outline

- Give an overview of the main points and the structure of your thesis.
- Examples: "Chapter 2 covers ... Chapter 3 describes ..."
- Show how the different parts (chapters) relate to each other.

Related Work

Approach

- 3.1 Introduction
- 3.2 Existing Approaches/Baselines
- 3.3 Analysis
- 3.4 Proposed Solution

Experimental Evaluation

- 4.1 Experimental Setup and Data Set
- **4.2** Experimental Results

Discussion

Conclusions

Appendix A

Instructions to Compile and Run System

Write your Appendix content here.



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