

# Effect handlers in Links

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# Abstract

This skeleton demonstrates how to use the `infthesis` style for undergraduate dissertations in the School of Informatics. It also emphasises the page limit, and that you must not deviate from the required style. The file `skeleton.tex` generates this document and should be used as a starting point for your thesis. Replace this abstract text with a concise summary of your report.

# **Research Ethics Approval**

This project was planned in accordance with the Informatics Research Ethics policy. It did not involve any aspects that required approval from the Informatics Research Ethics committee.

## **Declaration**

I declare that this thesis was composed by myself, that the work contained herein is my own except where explicitly stated otherwise in the text, and that this work has not been submitted for any other degree or professional qualification except as specified.

*(Steven Chang)*

# Acknowledgements

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# **Chapter 1**

## **Introduction**

**1.1 Motivations**

**1.2 Objectives**

**1.3 Contributions**

**1.4 Report structure**

# **Chapter 2**

## **Background**

- 2.1 Modern web development**
- 2.2 Links**
- 2.3 Algebraic effect handler**
- 2.4 Concurrent Programming with effect handler**
- 2.5 Related work**

# **Chapter 3**

## **Implementation**

- 3.1 Separation of concerns**
- 3.2 Extract effect interface**
- 3.3 Different versions of the applications and schedulers**



# **Chapter 4**

## **Evaluation**

**4.1 Analysis of results**

**4.2 User Experience**

**4.3 Challenges**

**4.4 Comparison**

# **Chapter 5**

## **Conclusions and future works**

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# **Appendix A**

## **Complete code for racing lines demo**

**A.1 racing\_lines.links**

**A.2 fiberInterface.links**

**A.3 lineDrawer.links**

**A.4 scheduler.links**