Thesis title goes here

by

Name Surname

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of the requirements for the Degree of

Doctor of Philosophy

Supervisor: Advisor-name Surname

Associate Supervisor: Co-advisor-name surname

THE UNIVERSITY OF

NEWCASTLE

AUSTRALIA

The University of Newcastle

Faculty of Engineering and Built Environment

School of Electrical Engineering and Computer Science

February, 2016

Thesis title goes here

Statement of Originality

This work contains no material which has been accepted for the award of any other degree or diploma in any university or other tertiary institution and, to the best of my knowledge and belief, contains no material previously published or written by another person, except where due reference has been made in the text. I give consent to this copy of my thesis, when deposited in the University Library, being made available for loan and photocopying subject to the provisions of the Copyright Act 1968.

Name Surname
26th February 2016

Acknowledgments

I here acknowledge my advisors, and everybody else that I need to acknowledge. Thank you.

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Name Surname
The University of Newcastle
February 2016

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ABSTRACT

The thesis abstract text goes here.

Chapter 1

Chapter one title goes here

LaTeX is a document preparation system for high-quality typesetting. It is most often used for medium-to-large technical or scientific documents but it can be used for almost any form of publishing.

1.1 An example of text and a list

LaTeX is based on Donald E. Knuth's TeX typesetting language or certain extensions. LaTeX was first developed in 1985 by Leslie Lamport, and is now being maintained and developed by the LaTeX3 Project. LaTeX is available for free by anonymous ftp [1]. LaTeX contains features for:

- Typesetting journal articles, technical reports, books, and slide presentations.

- Control over large documents containing sectioning, cross-references, tables and figures.

- Typesetting of complex mathematical formulas.

- Advanced typesetting of mathematics with AMS-LaTeX.

- Automatic generation of bibliographies and indexes.

- Multi-lingual typesetting.

- Inclusion of artwork, and process or spot colour.

- Using PostScript or Metafont fonts.

1.2 An example of an image inserted

LaTeX is a powerful typesetting system, used for producing scientific and mathematical documents of high typographic quality. Unlike WYSIWYG tools such as FrameMaker and Word, it uses plain text files that contain formatting commands. It's big, open source, stable

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[1]https://latex-project.org/ftp.html

and used by many technical publishing companies. It's also relatively unknown in the technical writing community. This article overviews LaTeX, and directs you to sources of information. Figure 1.1 shows the beautiful logo.

Figure 1.1: The LaTex logo

Avoid using .JPEG, JPG, GIF, BMP or any other bitmap file. Always prefer to use .SVG or .PDF vector files when possible, the result will be much better. After inserting your figure, just continue to writing your text.

Chapter 2

Chapter two title goes here

An small example using tables and algorithms.

2.1   Tables

Table 2.1 is an example of table. Play around with the arraystretch parameter to get more or less space between rows. The size is set to textwidht, you can also use amounts in inches or centimeters.

Network	Class	Nodes	Edges	AVG Degree	Max Modularity
Zakary's Karate Club	Real world network	34	78	4.59	0.4198
Lusseau's Dolphins	Real world network	62	159	5.13	0.5285
American College Football	Real world network	115	613	10.66	0.6046
Jazz Musicians	Real world network	119	2742	27.70	0.4451

Table 2.1: List of benchmark networks.

2.2   Algorithms

And here, just an small example of an algorithm.

1 $Input : (Population_0, Tournment\_Size)$;
2 $Population_1 = New\_Population$;
3 $Population_1 \leftarrow \{Indindividual_1, ..., Individual_{Tournment\_Size}\}$;
4 **for** $i = 0; \leqslant Tournment\_Size$ **do**
5 $\quad Population_1[i] \leftarrow Population_0[random[0, Tournment\_Size]]$;
6 **end**
7 $Output : Population_1.Best$.

Algorithm 1: Tournament selection.

Citations: and here, is how do you cite with a single reference [2], or with several [1, 2]. Basically, you have here all that you need to build your thesis with LaTeX. Have fun!

Bibliography

[1] D. E. Goldberg and J. H. Holland. Genetic algorithms and machine learning. *Machine learning*, 3(2):95–99, 1988.

[2] G. R. Harik, F. G. Lobo, and D. E. Goldberg. The compact genetic algorithm. *Evolutionary Computation, IEEE Transactions on*, 3(4):287–297, 1999.