# An Earth-shattering Work Significantly Advancing the State of the Art

by

## An Author, BCompSc

**Thesis**

Submitted by An Author

for fulfillment of the Requirements for the Degree of

**Doctor of Philosophy (0190)**

Supervisor: Dr. Joe Bloggs

Associate Supervisor: Dr. Fred Nurke

## Clayton School of Information Technology
## Monash University

May, 2006

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# Contents

# List of Tables

# List of Figures

# An Earth-shattering Work Significantly Advancing the State of the Art

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## Abstract

This thesis introduces ...Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.

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# An Earth-shattering Work Significantly Advancing the State of the Art

**Declaration**

I declare that this thesis is my own work and has not been submitted in any form for another degree or diploma at any university or other institute of tertiary education. Information derived from the published and unpublished work of others has been acknowledged in the text and a list of references is given.

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An Author
May 10, 2006

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# Acknowledgments

I would like to thank everyone who helped to make this possible. It has been an incredible journey of self-discovery, and I love every last one of you...

An Author

*Monash University*
*May 2006*

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# Chapter 1

# Introduction

Here I introduce the research area and my contributions to it.

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# Chapter 2

# Literature Review

In this chapter I will demonstrate some of the extended citation capabilities provided by the `natbib` package (Daly, 1999). It replaces the standard LaTeX `\cite` command with two basic forms of citation command: `\citep` and `\citet`, as well as providing several other very useful ones.

The `\citep` command is best used when placing a citation at the end of sentence or phrase (as above). In the `natbib` documentation, this is referred to as a *parenthetical citation*.[1]

When you want to refer to the authors of a particular work, typically at the start of a sentence, a parenthetical citation is not appropriate. This is particularly so if you are using a numerical or symbolic citation style. You should *not* start a sentence with

> [2] says that this is most certainly . . .

In such situations you really need to give the authors' names. The `\citet` command produces *textual citations*, which allows you to produce things like:

> Ade (1983) describes a means by which textures may be characterized . . . another approach is given in De Bonet and Viola (1998).

> Atick et al. (1996) note that humans have little or no difficulty in perceiving shape, yet find it extremely difficult to *describe* what they perceive.

Note that an abbreviated version of the authors' names has been produced in the third example above. It is often desirable to have the full list of authors' names given when a work is first cited, and an abbreviated list thereafter. This can be achieved by passing the `longnamesfirst` option to `natbib` when the package is used. This will produce an initial citation like:

> Atick, Griffin and Redlich (1996) note that humans have little or no difficulty in perceiving shape, yet find it extremely difficult to *describe* what they perceive.

Both the `\citep` and `\citet` can take two optional arguments. If just one is provided, its text will appear as a "post-note" after the citation details. If two arguments are provided, the first defines a pre-note, and the second a post-note. Here is an example:

> `\citep[Ch.~3]{AaK1989}` . . . (Aarts and Korst, 1989, Ch. 3)
> `\citep[see][Ch.~3]{AaK1989}` . . . (see Aarts and Korst, 1989, Ch. 3)

---

[1]For ease of conversion from exisiting LaTeX documents, you might find it useful to place `\renewcommand{\cite}{\citep}` in the preamble of the document, since any existing standard `\cite` commands should almost certainly be treated as `\citep`.

These examples only scratch the surface of what the `natbib` package can do. To discover the full power of the package, see the documentation at CTAN (Daly, 1999). You probably already have it on your system. Try `locate natbib.dvi` at the command line.

# Chapter 3

# Figures and Tables

Here we will test that references to figures and tables work correctly.

## 3.1   Figures

Figure 3.1: An example of a figure.

See Figure 3.1.

## 3.2   Tables

See Table 3.1.

### 3.2.1   Referencing test

See Table 3.1 and Figure 3.1.

| 23121 | 1212 | 232 |
|-------|------|-----|
| cat   | frog | dog |

Table 3.1: An example of a table

# Chapter 4

# Method

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# Appendix A

# This appendix should get a letter

An appendix before the backmatter gets an automatically generated letter by which it can be referred to. This is Appendix A.

# Appendix B

# Simulation Source Code

You may want to investigate the `lgrind` program and package if you wish to include source code in your thesis

# Vita

Publications arising from this thesis include:

**Author, A. and Bloggs, J. (2002),** A really catchy title. In *The 31st International Conference on Non-specific Computing.* Capital City, Country.

**Bloggs, J. and Author , A. (2002),** A very much longer and significantly less catchy title. in *Workshop on A Research Area.* Springfield, USA.

Permanent Address: Clayton School of Information Technology
Monash University
Australia

This thesis was typeset with $\text{\LaTeX}\,2_\varepsilon$[1] by the author.

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[1] $\text{\LaTeX}\,2_\varepsilon$ is an extension of $\text{\LaTeX}$. $\text{\LaTeX}$ is a collection of macros for $\text{\TeX}$. $\text{\TeX}$ is a trademark of the American Mathematical Society. The macros used in formatting this thesis were written by Glenn Maughan and modified by Dean Thompson and David Squire of Monash University.

# References

Aarts, E. and Korst, J. (1989). *Simulated annealing and Boltzmann machines*, John Wiley and Sons, New York.

Ade, F. (1983). Characterisation of textures by "eigenfilters", *Signal Processing* **5**: 451–457.

Atick, J. J., Griffin, P. A. and Redlich, A. N. (1996). The vocabulary of shape: principal shapes for probing perception and neural response, *Neural Computation* **7**(1): 1–5.

Daly, P. W. (1999). Natural sciences citations and references (author–year and numerical schemes), LaTeX2e package documentation. (last accessed February 7, 2004).
**URL:** *http://www.ctan.org/tex-archive/macros/latex/contrib/natbib/*

De Bonet, J. S. and Viola, P. (1998). Texture recognition using a non-parametric multi-scale statistical model, *Proceedings of the 1998 IEEE Conference on Computer Vision and Pattern Recognition (CVPR'98)*, Santa Barbara, California, USA.
**URL:** *http://www.ai.mit.edu/˜jsd/research/publications/1998/DeBonet-CVPR98.pdf*

# Last Thing

This sort of appendix has no letter.