



**School of Computer Science and Engineering**

**Faculty of Engineering**

**The University of New South Wales**

# **Stock Recommendation Aggregation Using Iterative Filtering**

by

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# Chapter 1

## Introduction

Having a set of clear requirements to their thesis is important to student finalising their BE, or other, degree. Such requirements are both in relation to the physical appearance of the thesis, as well as the writing style and organisation. The present document tries to concisely state the theses requirements while appearing in layout and structure as a thesis itself.

Chapter 2 explains the background for this document. Chapter 3 states the style and submission related requirements to theses submitted at the school. Chapter 4 explains content related requirements to theses. Chapter 5 evaluates the thesis requirements template. Finally, Chapter 6 draws up conclusions and suggest ways to further improve the thesis requirements template.

## Chapter 2

# Background

Every semester, students ask their supervisor how to write their thesis, what the requirements are, and what to write in it. This document tries to answer all such questions.

### 2.1 Previous work

Previously, Nooshabadi [?] has described style-related thesis requirements, Shepherd [?] has provided L<sup>A</sup>T<sub>E</sub>X templates while other academics have discussed contents with their students. This work draws all the relevant information regarding thesis writing into one document. The present template/document is heavily influenced by Nooshabadi and Shepherd, incorporating requirements from The Graduate Research School [?] for Higher Degree Research theses.



## Chapter 3

# Style and Submission Requirements

Requirements for other parts of the thesis work can be found on the school web-pages [?]. The requirements below are for the written thesis only.

### 3.1 Format

The following format specifications must be adhered to for your thesis (the L<sup>A</sup>T<sub>E</sub>X template available from the school ensures this):

1. The thesis must be printed on *A4 size paper*.
2. The thesis must be typed or prepared using a *word-processor*.
  - For Undergraduate theses, you are encouraged to use both sides of the paper.
  - For Higher Degree Research theses, your submitted thesis must be printed single-sided.
3. *Margins* on all sides must be no less than 25 mm (before binding).

4. *1.5 line spacing* (about 8 mm per line) must be used.
5. All sheets must be *numbered*. The main body of the thesis must be numbered consecutively from beginning to end. Other sections must either be included or have their own logical numbering system.
6. The *title page* must contain the following information:
  - (a) University and School names.
  - (b) Title of Thesis/Project.
  - (c) Topic Number (if applicable).
  - (d) Name of Author and student ID.
  - (e) The degree the thesis is submitted for.
  - (f) Submission date (month and year).
  - (g) Supervisor's name (for undergraduate theses).
7. After the body of the thesis, the thesis *must* contain a Bibliography or References list as appropriate.

Authors should confer with their supervisors and School about the style of their bibliography, as this varies between disciplines.

### 3.2 Other physical appearance

Other requirements to the physical appearance of your theses are:

1. The report must be *spiral bound* (at your own cost).
2. Formulas and other items difficult to type may be *neatly hand-written* in *permanent* black ink.
3. *Graphs, diagrams and photographs* should be inserted as close as possible to their *first reference* in the text. Rotated graphs etc are to be arranged so as to be

conveniently read, with the bottom edge to the outside of the page. *Graphs and diagrams must be legible!*

4. *Photographs* must be permanently attached to sheets at least along their left edge. Double sided adhesive may be used to attach photographs. Photographs printed on A4 size lightweight paper may be bound directly into the thesis.
5. *Computer programs* and *engineering drawings* should be bound into the thesis, usually in an appendix.
6. *Floppy diskettes/CD* may be attached to the back cover of the thesis folder using self adhesive tape or in a secure pocket.

### 3.3 Submission

Finally, here are some requirements to the submission procedure.

1. The *author* of the thesis is *responsible* for the preparation of the thesis before the deadline, proofreading the typescript and having corrections made as necessary.
2. All students must submit a *thesis summary sheet* with their thesis report. This summary sheet is designed to assist in determining the overall input by students into the thesis work. Please note that a separate summary sheet must be submitted by individual student, even if part of a group submitting a group thesis. The guidelines for completing the summary sheet and the summary sheet form can be downloaded from the School Office Website.
3. *Two copies* of each thesis/group thesis report must be submitted.
4. Students doing a *Group Thesis* are required to write and hand in *individual reports*. The reports should be clearly distinguishable, and appropriately cross referenced to each other. The common work overlapping between the reports should be clearly identified.

5. For undergraduate theses, there is a *page limit* of 100 pages for the main body of the thesis.

## Chapter 4

# Content Requirements

Students should consult the literature (e.g. [?, ?, ?, ?]) and other resources for material on how to write a good thesis. The present document is only a very brief introduction as to what is expected.

### 4.1 Structure

Most theses are structured very much like the present document. The main part of the thesis can be structured in many different ways, however, but must contain: a *problem definition*; *theory* and *considerations* on how to solve the problem; a description of the *solution method* (dimensioning, construction, etc.); presentation of *results* (measurements, simulations, etc.); a *discussion* of the results (validity, deviations, comparison with previous solutions, etc.); and finally the *conclusions*.

### 4.2 Style of writing

1. Audience: The thesis must be addressed to engineers at the same level as the student but without the special knowledge gained during the thesis work. Such

- a third-person must be able to reconstruct the results on the basis of the thesis alone.
2. Every used concept/symbol/abbreviation which is not widely know must be *defined*. The wording should be *short* and *concise*. For an undergraduate thesis, a suitable length is 40–70 pages (plus appendices). Readable(!) *figures* and *graphs* enhances comprehensibility.
  3. Units. *SI units* must be used.

### 4.3 Documentation

1. The work must be well documented; i.e. enclosed must be the *complete schematics* of designed electronic circuits/test set-ups and/or a *program listing*, and/or etc. Documentation of *simulation results* and/or *measurement results* likewise.
2. References: For every declaration/equation/method/etc., which is not widely known, a *reference to the literature* must be given (or a ‘proof’ if it is the authors own work). In case material is copied verbatim, quotes must be used. This is also the case when referring to partners work in the case of a Group Thesis.
3. Plagiarism: Failure to give proper references to the literature is *plagiarism*. Plagiarism is considered serious offence and severe penalties may apply.

## Chapter 5

# Evaluation

This chapter is mainly provided for the purpose of showing a typical thesis structure. There are no more thesis requirements described.

### 5.1 Results

The result of this work is the present document, being both a L<sup>A</sup>T<sub>E</sub>X template and a thesis requirement specification.

### 5.2 Discussion

The Dual function of this document somewhat de-emphasises the primary purpose of the document, namely the thesis requirements. It would be better, if these could be stated on a few concise pages (cf Appendix 1, p??).

## Chapter 6

# Conclusion

A thesis requirements/template document has been created. This serves the dual purposes of giving students specific requirements to their theses — both style and content related — while providing a typical thesis structure in a L<sup>A</sup>T<sub>E</sub>X template.

### 6.1 Future Work

Extract the requirements from the template in order to have very concise requirements.



# Bibliography