Master Thesis

How to Write Your B.E./M.E. Thesis

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Abstract

This guide gives instructions for writing your B.E. or M.E. theses following the standard of the Department of Information Science. The standard includes the structure and format which you must obey on writing your theses.

This guide also explains how to use a LaTeX style file for theses, named kuisthesis, with which you can easily produce well-formatted results. Since this guide itself is produced with the style file, it will help you to refer its source file eguide.tex as an example.

Note for graduate students: This document is written for students of old graduate school of information science, not for graudate school of informatics. Writers of master thesis belonging to graduate school of informatics must obey rules given by each department.

NOTE

This guide is translated from "特別研究報告・修士論文作成の手引" in order to provide an example written in English. Although you may regard this guide as giving the same guidelines and instructions which the Japanese version gives, remember that the Japanese version is solely and formally established by the Department.

特別研究報告書・修士論文執筆の手引

中島 浩

内容梗概

この手引では,特別研究報告書および修士論文をどのような構成とするか,またどのような形式で作成するかを説明したものである。また,当教室で定めた形式に則った論文を日本語 IATEX を用いて作成するためのスタイル・ファイルである,kuisthesisの使い方についても説明している。なお,この手引自体もkuisthesis を用い,定められた形式に従って作成されているので,必要に応じてソース・ファイル eguide.tex を参照されたい。

注意

この手引は,英文論文の例として用いるために日本語版の「特別研究報告・修士論文作成の手引」を翻訳したものである。この手引に示されている指示などは,日本語版のものと同一であると考えてもよいが,正式には日本語版のみが教室で定められたものであることに注意すること。

How to Write Your B.E./M.E. Thesis

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Chapter 1 Introduction

As you graduate the B.E. or M.E. course, you have to submit your graduation research report (aka B.E. thesis) or M.E. thesis in which the results of your research work in the course are compiled. Thus, your thesis should be respected as an important milestone on finishing the course. Your thesis will be kept in the Department library long years so that teaching staffs and student refer it.

Your thesis must describes your research work clearly keeping a given page limit. You must pay close and great attention to the structure of your thesis and every sentences, phrases and words. This guide shows guidelines of writing theses and instructions to make theses meet the standard of the Department. Following these guidelines and instructions, however, are not sufficient to write a good thesis, but they should be regarded as minimum requirements. The objective of writing a thesis is not to meet a standard but to make readers understand your research works correctly and clearly. Therefore, it is strongly recommended to read good research papers so that you develop your faculty for description and expression.

In the following sections, the standard structure of a thesis is shown, and then detailed instructions on writing a thesis are given. In appendix, a LATEX style file for theses, kuisthesis, and how to use it are explained.

NOTE

This guide is translated from "特別研究報告・修士論文作成の手引" in order to provide an example written in English. Although you may regard this guide as giving the same guidelines and instructions which the Japanese version gives, remember that the Japanese version is solely and formally established by the Department.

Chapter 2 Structure of Thesis

A thesis must consist of an abstract, a table of contents and the main text. Appendices may be added if necessary. Since each component has its own role, a component must be separated clearly from others and must have description appropriate to its role.

2.1 Abstract

The abstract of a thesis summarizes what the research work aimed at and what conclusion was formed. Thus, the abstract is not a condensed version of the thesis, but has to be essence of the thesis. Also note that an abstract is not an introduction.

The standard of the Department requires that a thesis must have both Japanese and English abstracts, each of which is compiled in two pages, irrespective of language in which the main text is written.

2.2 Table of Contents

The table of contents has a form like ordinary text books and is placed just before the main text. The table is useful to readers not only in looking up a section, but also in grasping the structure of your thesis.

2.3 Main Text

The main text should be self-contained. Although your thesis may have appendices, your thesis must be understandable by reading the main text only.

It is strongly recommended that the main text has an introduction, the main issue, and a conclusion.

2.3.1 Introduction

The introduction describes what position your research work occupies in a research area, what the research aims at, and how the research is characterized. Through those descriptions, readers will grasp the significance of your research work before reading the main issue.

Note that an introduction is different from an abstract in which the essence

of a thesis is described. Rather, the introduction makes readers warmed-up and ready to proceed to the main issue. Thus, it may be necessary to show the past and/or current state of the activities in the research area as a background, and to mention the relationship and difference between your work and other related works.

2.3.2 Main Issue

Since the main issue is obviously the body of your thesis, most of pages of the thesis should be given to the main issue. You must make much account of the completeness and consistency of the thesis, while emphasizing important issues. Also you must keep conscientious description in your mind, strictly and clearly separating what you did and what others did.

In order to keep the clearness of your thesis, which is the most important feature, take account of the following advice.

- Split the main issue into chapters and sections lining up them appropriately and giving them good titles. A section may be split further into smaller pieces that should have appropriate titles too.
- Make each chapter and section complete, and keep natural relationship between them.
- Use simple and concise expressions. Emphasize important and/or original issues describing them in detail, while summarize other parts.
- Define meaning of symbols used in your thesis clearly and accurately. Arrange the order and detailedness of formulae in a derivation carefully. If a derivation has long and complicated formulae, leave some important ones in the main text, while moving others to an appendix.
- Show bases of approximated and/or experimental equations, if any, clearly.
- Use figures and tables, which are often very important components of a thesis, to give explanations and/or conclusions. If a figure or table is quoted, indicate its source.
- Draw figures and tables carefully and accurately, taking account of the appropriateness of symbols in them. Give a good heading, which is a title or a short explanation, to each figure and table.
- Cite selected important literatures that are tightly related to your work,

instead of making a lengthy and redundant bibliography. The list of references should be placed at the end of the main text (just before appendices, if any).

2.3.3 Conclusions

The concluding section summarizes the main results of your research work. Thus this part is naturally the essence of the main issue and concludes the thesis in a more lofty style than the abstract.

If you found derivative and/or unsolved subproblems that are left for future works, they should be mentioned in the concluding section.

The authors of papers traditionally express their thanks to the people who give them guidance, suggestions and supports on their research works. Thus, it is strongly recommended to follow the tradition and to record your acknowledgments to such people after the conclusions.

2.4 Appendices

In principle, a thesis must be completed by the components shown above. However, you may add appendices to supplement the main text.

The following are examples that should be moved to appendices, and advice on compiling appendices.

- Long and complicated formula derivations, which are hardly included in the
 main text because of their length and readability. Give cross references both
 in the main text and the appendix to show the correspondence between
 them.
- Proofs of theorems, similarly. If the objective of your research work is to prove these theorems, however, the proofs (or simplified versions, at least) should be in the main text.
- Huge results of observations and/or numerical computations. Although such a result that supports arguments in a thesis is preferably in the main text, huge one should be moved in an appendix leaving a summary in the main text.
- Long source program lists.
- If an extremely huge data or a program list is really necessary to be shown,

it may be attached as a separate volume. In this case, the separate volume should have a form similar to the main volume for the convenience of keeping and referring.

• Each appendix, especially for that in a separated volume, should has an appropriate title and a brief explanation so that readers grasp what the appendix shows.

Chapter 3 Instructions on Writing Theses

3.1 Languages

A graduation research report should be written in **Japanese**.

A master thesis may be written in either Japanese or English.

Since you will have many opportunities to present your research works in international conferences, writing your thesis in English might be a good training. On the other hand, writing a good and correct Japanese thesis is also important for a student who will work in Japan. Therefore, the Department judged that writing a report in Japanese is appropriate and reasonable for a undergraduate student.

Regardless of language that you choose for the main text, **both Japanese** and English abstracts must be given, as described in Section 2.1.

Technical terms must be spelled correctly. Good examples of technical terms will be found in transactions and journals on your research area. If you cannot find a standard translation of a term, use the original word, or write a non-standard translation with the original word. A proper noun should be spelled in the original word or in Japanese Katakana. In the latter case, it is recommended to show the original word at its first appearance.

3.2 Symbols and Units

It is strongly recommended that a thesis with a lot of mathematics is typeset using (IA)TEX or other tool that is good at math handling. If you have to use an ordinary word-processor, choose fonts for math formulae carefully and pay close attention to the positions of subscripts and superscripts.

Symbols used in your thesis must be defined clearly, as mentioned before. If you use many symbols, you may define them in a "table of symbols" inserted in an appropriate place.

Abbreviated symbols for measuring units should be those standardized and/ or used in transactions and journals widely. As for a unit whose standard symbol has not been fixed, show what it stands for (in a footnote, for example).

3.3 Figures and Tables

Figures and tables must be inserted in the main text. Arrange the position of a figure or a table so that it is as close as possible to the text that refers it.

The number of a table, like "Table 1.3" and its heading must appear above the table. In case of a figure, its number, such as "Figure 2.1", and its heading must be placed below the figure.

Use some computer-aided drawing tool, if available, for figures. Otherwise, hand-written figures must be drawn with very much care, as if they are used to make typographical plates. Note that pencil-drawn figures are not acceptable.

In general, a figure or a table must be self-understandable. On the other hand, some description of a figure/table must appear in the main text with the reference of its number.

If you want to show huge results of observations and/or numerical computations, move them to an appendix leaving some important ones in the main text.

3.4 Footnotes

Footnotes are *not* recommended. It is occasionally acceptable, however, to use a footnote for a short annotation in order to make the main text less complicated.

A footnote must have a number to show its correspondence to a part of the main text, as shown in the example below.

A footnote may also be used to cite a literature describing, for example, a proof that is not a part of the main arguments of a thesis. However, remember this citation style is quite exceptional and the recommended style is to use a bibliography list that is explained later.

Example (Main Text)

...this sequential approximation method is used in the proof of a theorem that state differential equations has solutions¹⁾, and ... is known as a general feature²⁾.

¹⁾ This concept is introduced by Picard, et al. (1890).

²⁾ This proof is given in "Modern Analysis" by Whittaker and Watson, p. 123.

3.5 Literatures

A list of cited literatures should be compiled and should be placed at the end of the main text (and just before the appendices, if any). Each item of the list has a bracketed serial number, like [1], [2], etc. The number also appears at the end of the phrase in which corresponding literature is referred to. A word, such as the name of a person, may also be followed by the number.

For each literature in the list, the name of its author(s), its title, the name of the journal in which it appears, volume number and pages, and published year are recorded, as shown in the bibliography list of this guide. The literatures [1] to [3] appear in journals and proceedings, while [4] is a book.

If a journal has a well-known abbreviation, its full name can be replaced with the abbreviation. In the list of this guide, the article [2] appears in "IEEE Trans. Computers" whose full name is "IEEE Transactions on Computers".

For an article in a journal, it is recommended to add the issue number and published month of the journal together with the volume number and published year. The following is an example of the issue number and published month.

The tenth issue in volume four of a journal, published on October 1995.

3.6 Printed Form and Pages

A thesis must be printed on single sides of A4 form papers. The main text including figures, tables, and references must have the following pages, allowing 10% excess or shortage.

- Graduation research report 25 pages
- Master thesis 50 pages

(a thesis written in English may have 60 pages)

Figures and tables may occupy up to about 40%, and should be moved to appendices if exceeded.

A thesis must be printed by a typesetting tool, like (IA)TEX, or a word-processor. Note that hand-written theses will not be accepted.

Each page must have 3 cm left margin and 1 cm right margin at least.

For a thesis written in Japanese, use 12 pt (or similar size) fonts to form lines of 35 characters and pages of 32 lines. If you use a word-processor and have troubles to keep this line/page format, you may change characters per line and lines per page unless the number of characters in a page are not (greatly) changed.

For a thesis written in English, use 12 pt (or similar size) fonts to form lines of 14.2 cm wide and pages of 32 lines.

Regardless of language in which your thesis is written, give two lines to a top or second level section heading, while one line to a third or lower level. Do not insert empty lines nor vertical spaces above/below a itemization nor between items in it.

3.7 Cover, Title Page and Table of Contents

A title page must be attached at the very beginning of a thesis (i.e. just before the abstract). Whole thesis must be bound up in the binder that the Department designates.

On the cover of the binder, paste a cover sheet to show the type of your thesis (i.e. B. E or M. E thesis), its title, your supervisor name, the name of Department that you belong, your name, and submission date. The same items must be printed on the title page too.

At the top of both Japanese and English abstract pages, show the title of your thesis and your name. The title must appear at the top of the first page for table of contents.

3.8 Submission

Complete your thesis and submit it to the Department office no latter than the date that will be announced beforehand. Keep the deadline strictly.

3.9 Other Suggestions

Before you start writing your thesis, take enough time to plan its structure and length. Discussion on the contents of your thesis in your laboratory is also required. Before finishing, proofread your thesis again and again by yourself to make the thesis free from logical leaps and inconsistency. The proofreading is also required to polish sentences and to remove typos. It is recommended to ask senior members in your laboratory to correct errors caused by your misunderstanding and/or carelessness.

Chapter 4 Concluding Remarks

This guide described how to structure your thesis and how to form it. However, this guide is far from a fully-automatic procedure to write a good thesis, as mentioned at the very beginning.

The most important thing that you must have in your mind on writing your thesis is a strong will to let readers understand your research work. Having enthusiasm for improvement your thesis is also important. We hope you conclude your research work with strong will and enthusiasm.

Finally, if you have any questions on writing your thesis, ask your supervisor.

Acknowledgments

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References

- [1] Improved Modeling of Computer Hardware Systems, Computer Design, Vol. 12, pp. 59–64 (1973).
- [2] : Towards a New Theory of Sequential Switching Networks, IEEE Trans. Computers, Vol. C–19, pp. 936–956 (1970).
- [3] : Curved Surfaces and Coherence for Non-penetrating Rigid Body Simulation, Dallas, Texas, ACM, Addison-Wesley, pp. 19–28 (1990).
- [4] Matrix Methods in Stablity Theory, Nelson, London (1970).

Appendix: How to Use Style File kuisthesis

In order to produce a well-formatted thesis following the guidelines and instructions given in this guide, a LATEX style file, named kuisthesis is provided. This appendix explains what you have to do before use the style file and how to use it.

Since this guide itself is produced with the style file, it will help you to refer its source file eguide.tex as an example.

Most of LaTeX commands that will be used in your thesis source file are standard ones. Therefore, see the following book or other textbooks for basic usage of commands and LaTeX features not explained here.

Lamport, L.: A Document Preparation System Lambert's Guide & Reference Manual, Addison Wesley, Reading, Massachusetts (1986).

NOTE

In the following explanation, it is assumed that you intend to write your thesis in English. Otherwise, see the Japanese version of the guide.

A.1 Preliminaries

A.1.1 Obtaining Thesis Kit

The style file kuisthesis and other related files are packaged in a tar'ed and gzip'ed file;

ftp://ftp.kuis.kyoto-u.ac.jp/ku/kuis-thesis/kuisthesis.tar.gz .
This package consists of the following files:

- kuisthesis.sty: Style file.
- kuisthesis.cls: Style file for $\LaTeX 2_{\varepsilon}$.
- kuissort.bst : BibTFX style file (sorted).
- kuisunsrt.bst : BibTFX style file (unsorted).
- eguide.tex : Source file of this guide.
- guide.bib : BibTFX database file for this guide.
- guide.tex : Source file of Japanese version.
- guide.bib : BibT_EX database file for Japanese version.

A.1.2 LATEX Environment

Although your thesis is written in English, an abstract in Japanese must be included in it. Therefore, you have to use one of Japanese LATEX systems, that based on jTEX (or NTT version) developed by Saito of NTT, or on Japanese TEX (or ASCII version) provided from ASCII corporation. Since the style file cope with both versions, you may use what is available to you.

The style files are confirmed to be worked with the following versions.

- NTT = $jT_FX 1.52 + IAT_FX 2.09$
- ASCII = $T_EX 2.99 j1.7 + I_TEX 2.09$

Although we expect the style file will work with older versions, it is strongly recommended to use the versions shown above.

As for $\LaTeX 2_{\varepsilon}$, the style file is workable with the following versions.

- NTT = jT_EX 1.6 + L^AT_EX 2_{\varepsilon} 1994/12/01 patch level 3
- ASCII = pT_EX 3.1415 p2.1.4 + pL^AT_EX 2ε 1995/09/01

You may use the styles in either native-mode or LATEX 2.09 compatible mode.

A.2 Configuration of Source File

A source file must have the following format.

```
\end{eabstract}
\begin{jabstract}
     \langle abstract\ in\ Japanese \rangle
\end{jabstract}
\tableofcontents
                                            % output table of contents
\scalebox{section} \{\langle 1st \ section \ heading \rangle \}
     \langle main \ text \rangle
      . . . . . .
\acknowledgments
     \langle acknowledgments \rangle
\bibliographystyle{kuisunsrt}
\bibliographystyle{kuissort}
\bibliography{\langle BibT_{E\!X} \ database \ file \rangle}
Put appendices here following \appendix or \Appendix, if any.
\end{document}
```

Each component is explained in the following sections.

A.2.1 Page Format

Each page of a thesis is printed in a area whose width (\textwidith) is 14.2 cm and height (\texture texture and height (\texture texture and height is 22.2 cm. The hight is just enough to contain 32 lines, which is the regulation of a page shown in Section 3.6.

Fonts in \normalsize is the size of 12 pt, which also satisfies the regulation.

A.2.2 Option Styles

The following three style options are available to be specified in the optional argument of \documentclass.

master

For a master thesis. You must specify it because you intend to write a master thesis. Otherwise, your thesis will be regarded as a graduation research report mistakingly.

english

For a thesis written in English, which you must be on writing. If omitted, the result will have stuff in Japanese, which you do not want to have.

withinsec

Produce numbers of figures, tables and math formulae in the form of " $\langle S \rangle$. $\langle N \rangle$ " where S is the \section number in which a figure etc. appears, and N is its serial number in a \section. If omitted, numbering will runs through the whole of a thesis.

In the optional argument of \documentclass (or the mandatory argument of \usepackage), you may specify supplementary style files such as epsf. Note that style files may be incompatible to the style of theses. For example, you cannot use a4 style because it modifies the height of a page unexpectedly.

A.2.3 Specifying Title, etc.

The title of your thesis, you name, and your supervisor's name have to be defined by appropriate commands shown at the beginning of this section. After the definitions, do \maketitle to make a title page.

In the title page, the following items are centered and printed in order.

type of thesis Since you specified master and english option in the argument of \documentclass, the type of your thesis, "Master Thesis", is printed using \Large\bf font.

title The title specified by \etitle is printed using \LARGE\bf font. If the title is long, put \\ in the title string to show a line break point, instead of depending on automatic line breaking.

The title is also put on the pages of abstract and table of contents. Since your thesis must have a Japanese abstract with a Japanese title, give the Japanese title using \jtitle. Desirable line break points of the title in abstract and table of contents may be different from those in the title page. To cope this, \etitle can have an optional argument to specify the title string for abstract and table of contents as;

 $\left[\left\langle \text{opt-title}\right\rangle \right] \left\{\left\langle \text{title}\right\rangle \right\}$

where $\langle \text{opt-title} \rangle$ is the title for abstract and table of contents, while $\langle \text{title} \rangle$ is put in the title page. For example, the title of this guide is specified by;

\etitle[How to Write Your B.E./M.E. thesis]%

{How to Write//Your B.E./M.E. thesis}

to force line break only in the title page.

- **supervisor name** The name of your supervisor and his/her title (e.g. "Professor"), which are specified by \supervisor, are printed using \large font.
- affiliation You certainly are a master course student and thus belong to "Department of Information Science, Graduate School of Engineering, Kyoto University". Therefore, this string is printed using \large font.
- author name Your name given in the argument of \eauthor is printed using \Large font. Similar to the title of your thesis, your name also appear in the abstract pages and you must show your name with Japanese characters using \jauthor command.
- submission date The command \date is to specify the date on which you submit your thesis. The date is printed using \large font.
- department name You should specify the name of department like
 \department{Social Informatics}

to print it in the title page.

In the title page, its page number is not printed. However, the page in dvi file has an imaginary page number 1000 for convenience of printing procedure.

A.2.4 Abstract

An abstract in English should be given in eabstract environment, while its Japanese counterpart jabstract is for a Japanese abstract. At the top of the first page of each abstract, the title given by \etitle/\jtitle and your name specified by \eauthor/\jauthor are printed.

The order of printing two abstracts is that of your source file. Thus, it is natural to put eabstract environment before jabstract.

The page number of each abstract page is printed at the right-upper corner in lowercase Roman numeral. Although the page numbers are "i", "ii" and so on, naturally, 1000 is added to those in dvi file to distinguish them from pages of the main text in printing.

A.2.5 Table of Contents

A command \tableofcontents produce a table of contents. At the top of its first page, the title specified by \etitle is printed.

In default, the table contains headings and page numbers of \section,

\subsection and \subsubsection. If you want to eliminate \subsubsection, for example, do;

\setcounter{tocdepth}{2}

to set the counter tocdepth to 2 so that only level-1 (\section) and level-2 (\subsection) sections appear in the table.

Additionally, "Acknowledgments" and "References" are included in the table as numberless \section. If your thesis has an appendix, "Appendix" and its \section and \subsection are also included.

Page numbers are not printed for the table of contents, but dvi file pages have 1000-plus numbers following abstract pages.

A.2.6 Sectioning

As in usual IATEX documents, sectioning is done by \section, \subsection, \subsection and so on.

A heading given by \section is in two lines and is printed using \Large\bf font. A \subsection heading is printed using \large\bf font, leaving one blank line above it and no extra spaces below it. The command \subsubsection acts as \subsection but no blank lines are not inserted above and the font size is \normalsize.

In default, a heading given by one of these three commands will have a section number, while lower level commands \paragraph and \subparagraph will not show section numbers. Those lower level commands will not break lines after headings specified by them.

A.2.7 Figures and Tables

Figures and tables are contained in figure and table environments, respectively, as usual. Figure (or table) numbers run through the whole of main text in default. If you use withinsec option of \documentclass, however, numbers runs only through a \section and are shown combined with a \section number.

Sometimes, you may want to line up two or more figures and/or tables horizontally to saving space. Two environments subfigure and subtable aims at this horizontal placement. For example, Figure A.1 and Table A.1 are produced by the following command sequence.

| This is a figure | |
|------------------|--|
| | |

Figure A.1: Example of Figure

Table A.1: Example of Table

```
This is a table placed beside a figure.
```

```
\begin{figure}
\begin{subfigure}{0.6\textwidth}
\body of Figure A.1\\
\caption{Example of Figure}
\end{subfigure}
\begin{subtable}{0.4\textwidth}
\caption{Example of Table}
\body of Table A.1\\
\end{subtable}
\end{figure}
```

In this example, subfigure and subtable are enclosed by figure environment. However, you may enclose them by table.

The environments subfigure and subtable have the following specifications, similar to minipage.

```
\begin{subfigure}[\langle position \rangle] {\langle width \rangle} & \langle body \rangle & \end{subfigure} \\ begin{subtable}[\langle position \rangle] {\langle width \rangle} & \langle body \rangle & \end{subtable} \\ The command $\langle aption in an environment produce a heading appropriate to the environment.} \\ \end{subfigure}
```

It is recommended that the sum of widths of subfigure/subtable is equal to \textwidth¹⁾.

A.2.8 Itemizing

Standard LaTeX itemizing environments, enumerate, itemize, description and so on, are available as usual. Note that no extra vertical spaces are inserted above/below an environment nor between two \items.

¹⁾ You may put spaces between them by, for example, \hspace{\fill}

A.2.9 Footnotes

A LaTeX standard command \footnote will make a footnote. A footnote marks is this¹⁾ or this²⁾ or those like them. Observing this page and pages having footnotes, you will find that footnote numbers runs only through a page. Remember that you need to run LaTeX twice to have correct footnote numbers.

A.2.10 Acknowledgments

Your acknowledgments must follow a command \acknowledgments. The heading "Acknowledgments" is automatically produced and is included in the table of contents.

A.2.11 Bibliography

Use BibTeX to make a list of references easily. First, make a database file that includes bibliographic informations of all the literatures cited in your thesis. Then process it with a bibliographic style kuisunsrt or kuissort to have a well-formatted list like that shown in Section 3.5 and the list of this guide. The order of items in a list is that of appearance if you use kuisunsrt, while kuisort sorts items alphabetically using author names as keys.

If you cannot use BibTEX, you may make the list by thebibliograhpy environment, carefully following the style of the list in this guide.

Whether you use BibTEX or thebibliography, the heading "References" is automatically produced and is included in the table of contents.

A.2.12 Appendices

If your thesis has an appendix, it must follows a command \appendix or \Appendix. These two commands act similarly, except for page numbering. The command \appendix inhibits page number printing on each page nor each line of the table of contents. On the other hand, \Appendix will produce appendix pages numbered A-1, A-2, and so on. In both cases, pages in dvi file have imaginary page numbers from 2001.

Both commands have an optional argument to specify the heading of an appendix itself. For example, this appendix starts with

\Appendix[Appendix: How to Use Style File {\tt kuisthesis}]

¹⁾ An example of footnote.

²⁾ Another footnote example.

If the optional argument is not given, the heading of an appendix is simply "Appendix".

Each sectioning command in an appendix pretends as if it is ranked one level down. For example, a \section acts as a \subsection. Each section number has a prefix "A.", and thus it will be "A.1" or "A.2.3" or like them. Similarly, the number of a figure, a table or a math formula also has the prefix "A." 1).

A.3 Other Suggestions

One of the important feature of LaTeX is its capability of customizing functions and parameters for document processing. Thus, it is not forbidden but rather recommended that you add and devise your own functions in order to help yourself in writing a thesis. On the other hand, your own functions must not break the thesis format specified by the Department. Thus, it is necessary to balance innovation with conservation.

There are no simple and general guideline to judge whether a customization is allowed. One extreme guideline is that you do something only if you have confidence to do it after fully understanding the style file. If you feel proud that you are a LATEXnician, follow this guideline.

For other students, a not-so-extreme guideline might be that existing commands and parameters cannot be redefined. If you feel reading the style file to be troublesome, or you cannot understand the style file, follow this guideline.

The author of the style file made all possible efforts in order that the style file is bug-free. However, the author must confess that the style file may not be perfect, mainly because of lack of much application experience. If you have any trouble on using the style file, feel free to post your problem to the local news group is.misc of the Department. An announcement of new version release and other important notifications will be posted to the news group too. Remember that a teaching staff who is responsible for maintenance of the style file will NOT accept direct inquiries to him/her.

¹⁾ This prefixing is independent from withinsec option of \documentclass.