

A Report Template for Internet Technology and Engineering R&D Center of HUST: the itecreport-zh and itecreport-en class *

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*This document corresponds to itecreport-zh.cls and itecreport-en.cls v1.1, dated 2016/06/01.

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I Introduction

This is a report template for **Internet Technology and Engineering R&D Center of HUST**. This template is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

The whole project is published under LPPL v1.3 License at **GitHub**.

This template provides two class files which correspond to Chinese version and English version template separately: itecreport-zh and itecreport-en.

Read **Part II** and **Part III** for usage of Chinese version and English version template separately. The **Part IV** is the implementation of this template.

II 中文模板使用方法

1 使用必要条件

1. 安装最新版本的 **Texlive** (推荐) 或 **MiKTeX**。因为未及时更新的宏包可能存在未修复的 **bug**，请确保所有宏包都更新至最新。
2. 安装如下中文字体¹:
 - a) AdobeSongStd-Light
 - b) AdobeKaitiStd-Regular
 - c) AdobeHeitiStd-Regular
 - d) AdobeFangsongStd-Regular



如果使用 **LuaTeX**，安装字体之后需运行命令 `mkluatexfontdb` 生成字体索引。

2 安装

2.1 安装到本地

使用如下命令即可安装本模板到本地：

```
make install
```

如需卸载，则使用如下命令：

```
make uninstall
```

对于没有安装 **Make** 的 **Windows** 系统用户，可以使用如下命令安装：

```
makewin32.bat install
```

如需卸载，则使用如下命令：

```
makewin32.bat uninstall
```

虽然 `makewin32.bat` 表现与 **Makefile** 极其相似，但是还是强烈建议你安装 **Make**，对于 **Windows** 用户可以在[这里](#)下载。

¹本模板所用到的英文字体 **Tex Gyre Termes**，**Droid Sans** 和 **CMU Typewriter Text** 均默认安装于 **Texlive** 和 **MiKTeX** 中。

2.2 免安装使用

如果你希望临时使用本模板，而非安装到本地供长期使用。使用如下命令解压模板文件：

```
make unpack
```

对于没有安装 Make 的 Windows 系统用户，则使用如下命令解压：

```
makewin32.bat unpack
```

再将 itecreport 目录下的 itecreport-zh.cls 文件拷贝到你 T_EX 工程根目录下即可。

3 基本用法



本文档只能使用 X_YL^AT_EX 或 LuaL^AT_EX（推荐）编译。

在源文件开头处选择加载本文档类型，即可使用本模板，如下所示：

```
\documentclass{itecreport-zh}
```

3.1 基本字段设置

模板中定义一些命令用于设置文档中的字段。其中一部分命令是以 `\zhX{<Chinese var>}`，`\enX{<English var>}` 和 `\X{<Chinese var>}{<English var>}` 的形式出现，他们分别意味着设置字段 *x* 的中文部分，英文部分及一同设定。

<code>\reportno</code>	<code>\reportno{<Report Number>}</code>
------------------------	---

该命令用于设置文档编号。该命令是可选的，如果不加以设定，封面处不会显示相应项。

<code>\zhtitle</code>	<code>\zhtitle{<Chinese title>}</code>
<code>\entitle</code>	<code>\entitle{<English title>}</code>
<code>\title</code>	<code>\title{<Chinese title>}{<English title>}</code>

这一组命令用于设定文档的中英文标题。

<code>\zhauthor</code>	<code>\zhauthor{<Chinese author>}</code>
<code>\enauthor</code>	<code>\enauthor{<English author>}</code>
<code>\author</code>	<code>\author{<Chinese author>}{<English author>}</code>

这一组命令用于设定文档的中英文作者名。

<code>\date</code>	<code>\date{<Year>}{<Month>}{<Day>}</code>
--------------------	--

该命令用于设定文档的日期。如果不设定，则会选择当前编译日期作为文档的日期。

<code>\zhsupervisor</code>	<code>\zhsupervisor{<Chinese supervisor>}</code>
<code>\ensupervisor</code>	<code>\ensupervisor{<English supervisor>}</code>
<code>\supervisor</code>	<code>\supervisor{<Chinese supervisor>}{<English supervisor>}</code>

这一组命令用于设定文档的中英文指导老师名（含职称）。该命令是可选的，如果不加以设定，封面处不会显示相应项。

<code>\zhabstract</code>	<code>\zhabstract{<Chinese abstract>}</code>
<code>\enabstract</code>	<code>\enabstract{<English abstract>}</code>
<code>\abstract</code>	<code>\abstract{<Chinese abstract>}{<English abstract>}</code>

这一组命令用于设定文档的中英文摘要。

<code>\zhkeywords</code>	<code>\zhkeywords{<Chinese keywords>}</code>
<code>\enkeywords</code>	<code>\enkeywords{<English keywords>}</code>
<code>\keywords</code>	<code>\keywords{<Chinese keywords>}{<English keywords>}</code>

这一组命令用于设定文档的中英文关键字。

3.2 其它基本命令

下面来介绍其它基本命令。

<code>\frontmatter</code>	这一组命令用于设定论文的状态、改变样式，其具体使用见 简单示例 。
<code>\mainmatter</code>	<code>\frontmatter</code> 用在文档最开始，表明文档的前言部分（如封面，摘要，目录等）的开始。
<code>\backmatter</code>	<code>\mainmatter</code> 表示论文正文的开始。 <code>\backmatter</code> 表示论文正文的结束。

<code>\maketitle</code>	<code>\maketitle</code> 和 <code>\makecover</code> 作用相同，用于生成封面和版权页面。
<code>\makecover</code>	

<code>\makeabstract</code>	用于生成中英文摘要页面。
----------------------------	--------------

<code>\tableofcontents</code>	用于生成目录。
-------------------------------	---------

<code>\zhdateformat</code>	用于打印中英文日期。
<code>\enddateformat</code>	

<code>ack</code>	<code>ack</code> 环境用于致谢页面。使用方法如下：
------------------	-----------------------------------

```

\begin{ack}
  <content>
\end{ack}

```

\bibliography \bibliography{<.bib file>}

用于生成参考文献。

appendix **appendix** 环境用于附录环境。你可以将附录置于 **appendix** 环境中，如：

```

\begin{appendix}
  <content>
\end{appendix}

```

\appendix 或者使用 **\appendix** 代表后文均为附录，如：

```

\appendix
<content>

```

\listoffigures 这两个命令分别用于生成图片和表格索引，可以根据要求在论文前言中使用或
\listoftables 附录中使用。

publications **publications** 环境用于已发表论文页面。一般用于附录中。使用上同 **enumerate** 环境。如下：

```

\begin{publications}
  \item <thesis>
  <...>
\end{publications}

```

\TurnOffTabFontSetting

\TurnOnTabFontSetting

因为模板中设定了表格的行距和字号，使得使用中无法临时自定义表格的行距和字号。故提供两个命令用于关闭和开启默认表格的行距和字号设置。比如你如果需要输出一个自己定义字号的表格，可以使用如下示例：

```

\begin{group}
\TurnOffTabFontSetting
\footnotesize % 设置字号
\begin{tabular}{...}
  <content>
\end{tabular}
\TurnOnTabFontSetting
\end{group}

```

`\email` `\email{<Email Address>}`

用于生成邮箱地址。如`\email{name@example.com}`会生成如下效果的地址：
`name@example.com`。

4 简单示例

如下为一个使用本模板的简单示例。更完整的例子请见 `itecreport-zh-example.tex` 文件，其效果见 `itecreport-zh-example.pdf`。

```
1 \documentclass{itecreport-zh}
2
3 \reportno{12345} % 可选
4 \title{中文标题}{英文标题}
5 \author{作者名}{作者名拼音}
6 \supervisor{指导老师中文}{指导老师英文} % 可选
7 \date{2013}{6}{1}
8
9 \zhabstract{中文摘要}
10 \zhkeywords{中文关键字}
11 \enabstract{英文摘要}
12 \enkeywords{英文关键字}
13
14 \begin{document}
15
16 \frontmatter
17 \maketitle
18 \makeabstract
19 \tableofcontents
20 \listoffigures
21 \listoftables
22 \mainmatter
23
24 %% 正文
25
26 \backmatter
27
28 \begin{ack}
29 %% 致谢
30 \end{ack}
31 \bibliography{参考文献.bib文件}
32
33 \appendix
34
35 \begin{publications}
36 %% 发表过的论文列表
```

```

37 \end{publications}
38
39 %% 附录剩余部分
40
41 \end{document}

```

5 预设宏包介绍

本模板中预设了一些宏包，下面对其进行简单介绍。

- **algorithm2e** 算法环境。
- **enumitem** 自定义列表环境的式样。
- **fancynum** 用于将大数每三位断开。
- **listings** 代码环境。如需更好的代码高亮可以使用 **minted** 宏包。
- **longtable** 跨页的超长表格环境。
- **ltxtable** **longtable** 环境和 **tabularx** 环境的合并。
- **multirow** 用于表格中合并行。
- **overpic** 用于在图片上层叠其他内容。
- **tabularx** 扩展到表格环境。
- **zhnumber** 用于生成中文数字。

6 高级设置

6.1 切换字体

模板正文字体为宋体 (AdobeSongStd-Light)，同时我们提供如下命令切换中文字体：

```

\HEI {\HEI <content>}
\hei {\hei<content>}

```

切换字体为黑体 (AdobeHeitiStd-Regular)。

```

\KAI {\KAI <content>}
\kai {\kai<content>}

```

切换字体为楷体 (AdobeKaitiStd-Regular)。

```

\FANGSONG {\FANGSONG <content>}
\fangsong {\fangsong<content>}

```

切换字体为仿宋 (AdobeFangsongStd-Regular)。

如果需要加载其他字体，请参阅宏包 **fontspec**，宏包 **xeCJK** (对于 Xe_{La}TeX) 和宏包 **luatex-jafonts** (对于 Lua_{La}TeX) 的文档。

III Usage of English Version Template

1 Requirement

Install the latest version of [Texlive](#)(Recommend) or [MiKTeX](#). Please ensure that all the packages are up-to-date.

2 Installation

2.1 Install into local

Use the command below to install this template into local.

```
make install
```

If you need uninstall it, use the command below.

```
make uninstall
```

For Windows User who don't install Make, use the command below to install.

```
makewin32.bat install
```

If you need uninstall it, use the command below.

```
makewin32.bat uninstall
```

Although `makewin32.bat` behaves much like `Makefile`, I still recommend you install Make into your Windows. You can download it from [here](#).

2.2 Use without installation

If you want to use this template temporary rather than installing it into local for long term use. Run below command to unpack the package.

```
make unpack
```

For Windows User who don't install Make, use the command below to unpack the package.

```
makewin32.bat unpack
```

Then copy the file `itecreport-en.cls` from directory `itecreport` into your \TeX project root directory.

3 Usage



*This template can only be compiled by
Xe_ΛTeX or Lua_ΛTeX (Recommend).*

Insert below code in the top of source code to use this template:

```
\documentclass{itecreport-en}
```

3.1 Variables setting

There're some commands which are used to set the variables for the report.

<code>\reportno</code>	<code>\reportno{<Report Number>}</code>
------------------------	---

Set report number if you have. Otherwise it will not be shown in tiltepage.

<code>\title</code>	<code>\title{<title>}</code>
---------------------	------------------------------------

Set title.

<code>\author</code>	<code>\author{<author>}</code>
----------------------	--------------------------------------

Set author.

<code>\date</code>	<code>\date{<Year>}{<Month>}{<Day>}</code>
--------------------	--

Set date. If you don't set it, template will use current date.

<code>\supervisor</code>	<code>\supervisor{<supervisor>}</code>
--------------------------	--

Set your supervisor if you have. Otherwise it will not be shown in tiltepage.

<code>\abstract</code>	<code>\abstract{<abstract>}</code>
------------------------	--

Put your abstract.

<code>\keywords</code>	<code>\keywords{<keywords>}</code>
------------------------	--

Put your keywords.

3.2 Other commands

<code>\frontmatter</code>	Used to determine the different part of document. You can see the example
<code>\mainmatter</code>	at section 4 .
<code>\backmatter</code>	

<code>\maketitle</code>	<code>\maketitle</code> and <code>\makecover</code> are the same. Used to create the title page.
<code>\makecover</code>	

<code>\makeabstract</code>	Used to create abstract page.
----------------------------	-------------------------------

<code>\tableofcontents</code>	Used to create table of contents.
-------------------------------	-----------------------------------

<code>\dateformat</code>	Used to print the date.
--------------------------	-------------------------

<code>ack</code>	The <code>ack</code> environment is used to create acknowledge page.
------------------	--

```
\begin{ack}
  <content>
\end{ack}
```

<code>\bibliography</code>	<code>\bibliography{(.bib file)}</code>
----------------------------	---

Used to create bibliography page.

<code>appendix</code>	The <code>appendix</code> environment is for appendix of course. Used like this:
-----------------------	--

```
\begin{appendix}
  <content>
\end{appendix}
```

<code>\appendix</code>	Or simple use <code>\appendix</code> to indicate that the rest of document are all in appendix, like this:
------------------------	--

```
\appendix
<content>
```

<code>\listoffigures</code>	Create the index for all the figures and tables separately.
-----------------------------	---

<code>\listoftables</code>

<code>publications</code>	The <code>publications</code> environment is where you list all of your published theses. It's usually putted in appendix.
---------------------------	--

```
\begin{publications}
  \item <thesis>
  <...>
\end{publications}
```

`\TurnOffTabFontSetting`
`\TurnOnTabFontSetting`

This template has set the font size and line spread for all the tables which makes it's impossible to change font format temporary in one table. So it provides these to command to temporary disable or enable default font setting in table. For example, if you want to change table font size, you can use the code like this:

```
\begin{group}
\TurnOffTabFontSetting
\footnotesize % Set your font format as you like.
\begin{tabular}{...}
<content>
\end{tabular}
\TurnOnTabFontSetting
\end{group}
```

`\email` `\email{Email Address}`

A command to display email address. For example, `\email{name@example.com}` would look like this: `name@example.com`.

4 Simple example

Below is a simple example of using this template. For a complete example see `itecreport-en-example.tex` which will generate `itecreport-en-example.pdf`.

```
1 \documentclass{itecreport-en}
2
3 \reportno{12345} % Optional
4 \title{your title}
5 \author{your name}
6 \supervisor{your supervisor} % Optional
7 \date{2013}{6}{1}
8
9 \abstract{the abstract}
10 \keywords{the keywords}
11
12 \begin{document}
13
14 \frontmatter
15 \maketitle
16 \makeabstract
```

```

17 \tableofcontents
18 \listoffigures
19 \listoftables
20 \mainmatter
21
22 %% main body
23
24 \backmatter
25
26 \begin{ack}
27 %% acknowledge
28 \end{ack}
29 \bibliography{.bib file}
30
31 \appendix
32
33 \begin{publications}
34 %% your publications
35 \end{publications}
36
37 %% rest of appendix
38
39 \end{document}

```

5 Introduction to some packages used in the template

Here's a list of some packages used in the template.

- **algorithm2e** For display algorithm.
- **enumitem** For set the style of enumerate, itemize and description environment.
- **fancynum** Display the really big number.
- **listings** For display the highlighted code. If you need better quality, use the package **minted**.
- **longtable** Create a very long table.
- **ltxtable** Combine the features of longtable and tabularx.
- **multirow** Combine multi-rows in table.
- **overpic** Put something over a picture,
- **tabularx** A better table environment.

IV Implementation

```
1 %<*class>
2 \RequirePackage{ifthen}
```

1 Process Options

Process options and load class book.

```
3 \RequirePackage{xkeyval}
4 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
5 \ProcessOptionsX
6 \LoadClass[12pt, a4paper, openany]{book}
```

2 Check Engine

Check engine, only Xe_{La}TeX and Lua_{La}TeX are supported.

```
7 \RequirePackage{iftex}
8 \ifXeTeX\else
9   \ifLuaTeX\else
10     \begingroup
11       \errorcontextlines=-1\relax
12       \newlinechar=10\relax
13       \errmessage{^^J
14         *****^^J
15         * XeTeX or LuaTeX is required to compile this document.^^J
16         * Sorry!^^J
17         *****^^J
18       }%
19     \endgroup
20   \fi
21 \fi
```

3 Font Setting

Set font used in document. Firstly, it's font setting for English version template (itecreport-en). We use `fontspec` package to handle font. We

choose Tex Gyre Termes, Droid Sans and CMU Typewriter Text as document main font, sans font and mono font.

```

22 %<*class-en>
23 \RequirePackage{fontspec}
24 \setmainfont[
25   Ligatures={Common,TeX},
26   Extension=.otf,
27   UprightFont=*-regular,
28   BoldFont=*-bold,
29   ItalicFont=*-italic,
30   BoldItalicFont=*-bolditalic]{texgyretermes}
31 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
32 \setmonofont{CMU Typewriter Text}
33 \defaultfontfeatures{Mapping=tex-text}
34 %</class-en>

```

Below is the font setting for Chinese version template (itecreport-zh). The Chinese version template chooses the same English font as English version. We use `xecjk` package (for Xe_{La}TeX) or `luatex-jafont` package (for Lua_{La}TeX, recommend) to handle Chinese font. We will use font: AdobeSongStd-Light, AdobeKaitiStd-Regular, AdobeHeitiStd-Regular and AdobeFangsongStd-Regular.

```

35 %<*class-zh>
36 \ifXeTeX % XeTeX 下使用 fontspec + xeCJK 处理字体
37 % 英文字体
38 \RequirePackage{fontspec}
39 \RequirePackage{xunicode}
40 \setmainfont[
41   Ligatures={Common,TeX},
42   Extension=.otf,
43   UprightFont=*-regular,
44   BoldFont=*-bold,
45   ItalicFont=*-italic,
46   BoldItalicFont=*-bolditalic]{texgyretermes}
47 \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
48 \setmonofont{CMU Typewriter Text}
49 \defaultfontfeatures{Mapping=tex-text}
50 % 中文字体
51 \RequirePackage[CJKmath]{xeCJK}
52 \setCJKmainfont[
53   BoldFont={Adobe Heiti Std},

```

```

54   ItalicFont={Adobe Kaiti Std}]{Adobe Song Std}
55   \setCJKsansfont{Adobe Kaiti Std}
56   \setCJKmonofont{Adobe Fangsong Std}
57   \xeCJKsetup{PunctStyle=kaiming}

```

\HEI

```

58   \newCJKfontfamily\HEI{Adobe Heiti Std}

```

(End definition for \HEI. This function is documented on page 9.)

\KAI

```

59   \newCJKfontfamily\KAI{Adobe Kaiti Std}

```

(End definition for \KAI. This function is documented on page 9.)

\FANGSONG

```

60   \newCJKfontfamily\FANGSONG{Adobe Fangsong Std}

```

(End definition for \FANGSONG. This function is documented on page 9.)

\hei

```

61   \newcommand{\hei}[1]{\HEI #1}

```

(End definition for \hei. This function is documented on page 9.)

\kai

```

62   \newcommand{\kai}[1]{\KAI #1}

```

(End definition for \kai. This function is documented on page 9.)

\fangsong

```

63   \newcommand{\fangsong}[1]{\FANGSONG #1}

```

(End definition for \fangsong. This function is documented on page 9.)

```

64   \else\fi
65   \ifLuaTeX % LuaTeX 下使用 luatex-ja 处理字体 [推荐]
66   \RequirePackage{luatexja-fontspec}
67   % 英文字体
68   \setmainfont[Ligatures={Common,TeX}]{Tex Gyre Termes}
69   \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
70   \setmonofont{CMU Typewriter Text}
71   \defaultfontfeatures{Mapping=tex-text,Scale=MatchLowercase}
72   % 中文字体
73   \setmainfont[
74     BoldFont={AdobeHeitiStd-Regular},

```

```

75   ItalicFont={AdobeKaitiStd-Regular}]{AdobeSongStd-Light}
76   \setsansjfont{AdobeKaitiStd-Regular}
77   \defaultjfontfeatures{JFM=kaiming}

```

\HEI

```

78   \newfontfamily\HEI{AdobeHeitiStd-Regular}

(End definition for \HEI. This function is documented on page 9.)

```

\KAI

```

79   \newfontfamily\KAI{AdobeKaitiStd-Regular}

(End definition for \KAI. This function is documented on page 9.)

```

\FANGSONG

```

80   \newfontfamily\FANGSONG{AdobeFangsongStd-Regular}

(End definition for \FANGSONG. This function is documented on page 9.)

```

\hei

```

81   \newcommand{\hei}[1]{\jfontspec{AdobeHeitiStd-Regular} #1}}

(End definition for \hei. This function is documented on page 9.)

```

\kai

```

82   \newcommand{\kai}[1]{\jfontspec{AdobeKaitiStd-Regular} #1}}

(End definition for \kai. This function is documented on page 9.)

```

\fangsong

```

83   \newcommand{\fangsong}[1]{\jfontspec{AdobeFangsongStd-Regular} #1}}

(End definition for \fangsong. This function is documented on page 9.)

```

```

84   \else\fi

```

Chinese number for itecreport-zh using **zhnumber**.

```

85   \RequirePackage{zhnumber}
86   \def\CJKnumber#1{\zhnumber{#1}} % 兼容 CJKnumb
87   %</class-zh>

```

4 Basic Format

We set global line spread to 1.2.

```
88 \linespread{1.2}\selectfont
```

Use `geometry` package to handle paper page.

```
89 \RequirePackage{geometry}
```

```
90 \geometry{
```

```
91   top=1.2in,
```

```
92   bottom=1.2in,
```

```
93   left=1in,
```

```
94   right=1in,
```

```
95   includefoot
```

```
96 }
```

```
97 \pagewidth=\paperwidth
```

```
98 \pageheight=\paperheight
```

Indent of paragraph and skip between paragraphs.

```
99 \RequirePackage{indentfirst}
```

```
100 \setlength{\parindent}{2em}
```

```
101 \setlength{\parskip}{0pt plus 2pt minus 1pt}
```

Packages to handle color.

```
102 \RequirePackage{color}
```

```
103 \RequirePackage[table]{xcolor}
```

Use `hyperref` package to generate cross-reference link.

```
104 \RequirePackage[unicode]{hyperref}
```

```
105 \definecolor{ITEC@hyperreflinkred}{RGB}{128,23,31}
```

```
106 \hypersetup{
```

```
107   bookmarksnumbered=true,
```

```
108   bookmarksopen=true,
```

```
109   bookmarksopenlevel=1,
```

```
110   breaklinks=true,
```

```
111   colorlinks=true,
```

```
112   allcolors=ITEC@hyperreflinkred,
```

```
113   linktoc=page,
```

```
114   plainpages=false,
```

```
115   pdfpagelabels=true,
```

```
116   pdfstartview={XYZ null null 1},
```

```
117 %<class-zh>pdfinfo={Template.Info={itecreport-zh.cls 2013/06/01, Copy-
```

```
right (C) 2013-2014 by Xu Cheng 2014 by hust-latex, https://github.com/hust-latex/it
```

```

118 %<class-en>pdfinfo={Template.Info={itecreport-en.cls 2013/06/01, Copy-
      right (C) 2013-2014 by Xu Cheng 2014 by hust-latex, https://github.com/hust-latex/it
119 }

```

5 Load Packages

Load packages for math.

```

120 \RequirePackage{amsmath,amssymb,amsfonts}
121 \RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
122 \RequirePackage{fancytsum}
123 \setfnumgsum{\,}
124 \RequirePackage[lined,boxed,linesnumbered,ruled,vlined]{algorithm2e}

```

Load packages for picture.

```

125 \RequirePackage{overpic}
126 \RequirePackage{graphicx,caption,subcaption}

```

Load packages for table.

```

127 \RequirePackage{array}
128 \RequirePackage{multirow,tabularx,ltxttable}

```

Load package for code highlight. Here we use `listings` to highlight the code. But if you need more features, use `minted`.

```

129 \RequirePackage{listings}

```

Load package for bibliography cite style.

```

130 \RequirePackage[numbers,square,comma,sort&compress]{natbib}

```

Other packages for style setting.

```

131 \RequirePackage{titlesec}
132 \RequirePackage{titletoc}
133 \RequirePackage{tocvsec2}
134 \RequirePackage[inline]{enumitem}
135 \RequirePackage{fancyhdr}
136 \RequirePackage{afterpage}
137 \RequirePackage{datenum}
138 \RequirePackage{etoolbox}
139 \RequirePackage{appendix}
140 \RequirePackage[titles]{tocloft}
141 \RequirePackage{xstring}
142 \RequirePackage{perpage}

```

6 Localization

Chinese localization.²

```
143 %<*class-zh>
144 \def\indexname{索引}
145 \def\figurename{图}
146 \def\tablename{表}
147 \AtBeginDocument{\def\listingscaption{代码}}
148 \def\bibname{参考文献}
149 \def\contentsname{目\hspace{1em}录}
150 \def\contentsnamenospace{目录}
151 \def\appendixname{附录}
152 \def\ITEC@listfigurename{插图索引}
153 \def\ITEC@listtablename{表格索引}
154 \def\equationautorefname{公式}
155 \def\footnoteautorefname{脚注}
156 \def\itemautorefname~#1\null{第~#1~项\null}
157 \def\figureautorefname{图}
158 \def\tableautorefname{表}
159 \def\appendixautorefname{附录}
160 \expandafter\def\csname\appendixname autorefname\endcsname{\appendixname}
161 \def\chapterautorefname~#1\null{第\zhnumber{#1}章\null}
162 \def\sectionautorefname~#1\null{#1~小节\null}
163 \def\subsectionautorefname~#1\null{#1~小节\null}
164 \def\subsubsectionautorefname~#1\null{#1~小节\null}
165 \def\FancyVerbLineautorefname~#1\null{第~#1~行\null}
166 \def\pageautorefname~#1\null{第~#1~页\null}
167 \def\lstlistingautorefname{代码}
168 \def\definitionautorefname{定义}
169 \def\propositionautorefname{命题}
170 \def\lemmaautorefname{引理}
171 \def\theoremautorefname{定理}
172 \def\axiomautorefname{公理}
173 \def\corollaryautorefname{推论}
174 \def\exerciseautorefname{练习}
175 \def\exampleautorefname{例}
176 \def\proofautorefname{证明}
177 \SetAlgorithmName{算法}{算法}{算法索引}
```

²The autorefname Reference:<http://tex.stackexchange.com/questions/52410/how-to-use-the-command-autoref-to-implement-the-same-effect-when-use-the-command>

```

178 \SetAlgoProcName{过程}{过程}
179 \SetAlgoFuncName{函数}{函数}
180 \def\AlgoLineautorefname~#1\null{第~#1~行\null}
181 %</class-zh>

```

English localization.

```

182 %<*class-en>
183 \def\ITEC@listfigurename{List of Figures}
184 \def\ITEC@listtablename{List of Tables}
185 \def\equationautorefname{Equation}
186 \def\footnoteautorefname{Footnote}
187 \def\itemautorefname{Item}
188 \def\figureautorefname{Figure}
189 \def\tableautorefname{Table}
190 \def\appendixautorefname{Appendix}
191 \expandafter\def\csname\appendixname\endcsname{\appendixname}
192 \def\chapterautorefname{Chapter}
193 \def\sectionautorefname{Section}
194 \def\subsectionautorefname{Subsection}
195 \def\subsubsectionautorefname{Sub-subsection}
196 \def\FancyVerbLineautorefname{Line}
197 \def\pageautorefname{Page}
198 \def\lstlistingautorefname{Code Fragment}
199 \def\definitionautorefname{Definition}
200 \def\propositionautorefname{Proposition}
201 \def\lemmaautorefname{Lemma}
202 \def\theoremautorefname{Theorem}
203 \def\axiomautorefname{Axiom}
204 \def\corollaryautorefname{Corollary}
205 \def\exerciseautorefname{Exercise}
206 \def\exampleautorefname{Example}
207 \def\proofautorefname{Proof}
208 \SetAlgorithmName{Algorithm}{Algorithm}{List of Algorithms}
209 \SetAlgoProcName{Procedure}{Procedure}
210 \SetAlgoFuncName{Function}{Function}
211 \def\AlgoLineautorefname{Line}
212 %</class-en>

```

Internal variables.

```

213 %<*class-en|class-zh>
214 \long\def\ITEC@entitletitle{Huazhong University of Science and Tech-
nology\\Department of Electronics and Information Engineering\\Inter-

```



```

net Technology and Engineering R\char38D Center\\[0.8cm]Technical Re-
port}
215 \def\ITEC@enauthortitle{Author}
216 \def\ITEC@ensupervisortitle{Supervisor}
217 \def\ITEC@enabstractname{Abstract}
218 \def\ITEC@enkeywordstitle{Key words:}
219 %</class-en|class-zh>
220 %<*class-en>
221 \def\ITEC@ackname{Acknowledge}
222 \def\ITEC@publicationtitle{Publication}
223 %</class-en>
224 %<*class-zh>
225 \long\def\ITEC@zhtitletitle{华中科技大学 电子与信息工程系\湖北省智能互
    联网技术重点实验室\\[0.8cm] 技术报告}
226 \def\ITEC@zhauthortitle{作者}
227 \def\ITEC@zhsupervisortitle{指导教师}
228 \def\ITEC@zhabstractname{摘\hspace{1em}要}
229 \def\ITEC@zhabstractnamenospace{摘要}
230 \def\ITEC@zhkeywordstitle{关键词: }
231 \def\ITEC@ackname{致\hspace{1em}谢}
232 \def\ITEC@acknamenospace{致谢}
233 \def\ITEC@publicationtitle{在实验室期间发表的学术论文}
234 %</class-zh>

Set \listfigurename and \listtablename.
235 \def\listfigurename{\ITEC@listfigurename}
236 \def\listtablename{\ITEC@listtablename}

```

7 Style Setting

7.1 Equation Style

Allow long equation breaking between lines or pages.

```
237 \allowdisplaybreaks[4]
```

Set skip between equation and context.

```
238 \abovedisplayskip=10bp plus 2bp minus 2bp
```

```
239 \abovedisplayshortskip=10bp plus 2bp minus 2bp
```

```
240 \belowdisplayskip=\abovedisplayskip
```

```
241 \belowdisplayshortskip=\abovedisplayshortskip
```

Set equation numbering style.

```
242 \numberwithin{equation}{chapter}
```

7.2 Theorem Style

We use `amsthm` to handle the proof environment and use `nttheorem` to handle other theorem environments.

```
243 \theoremnumbering{arabic}
244 %<class-zh>\theoremseparator{: }
245 %<class-en>\theoremseparator{:}
246 \theorempreskip{1.2ex plus 0ex minus 1ex}
247 \theorempostskip{1.2ex plus 0ex minus 1ex}
248 \theoremheaderfont{\normalfont\bfseries\HEI}
249 \theoremsymbol{}
250
251 \theoremstyle{definition}
252 \theorembodyfont{\normalfont}
253 %<class-zh>\newtheorem{definition}{定义}[chapter]
254 %<class-en>\newtheorem{definition}{Definition}[chapter]
255
256 \theoremstyle{plain}
257 \theorembodyfont{\itshape}
258 %<class-zh>\newtheorem{proposition}{命题}[chapter]
259 %<class-en>\newtheorem{proposition}{Proposition}[chapter]
260 %<class-zh>\newtheorem{lemma}{引理}[chapter]
261 %<class-en>\newtheorem{lemma}{Lemma}[chapter]
262 %<class-zh>\newtheorem{theorem}{定理}[chapter]
263 %<class-en>\newtheorem{theorem}{Theorem}[chapter]
264 %<class-zh>\newtheorem{axiom}{公理}[chapter]
265 %<class-en>\newtheorem{axiom}{Axiom}[chapter]
266 %<class-zh>\newtheorem{corollary}{推论}[chapter]
267 %<class-en>\newtheorem{corollary}{Corollary}[chapter]
268 %<class-zh>\newtheorem{exercise}{练习}[chapter]
269 %<class-en>\newtheorem{exercise}{Exercise}[chapter]
270 %<class-zh>\newtheorem{example}{例}[chapter]
271 %<class-en>\newtheorem{example}{Example}[chapter]
272
273 %<class-zh>\def\proofname{\hei{证明}}
274 %<class-en>\def\proofname{\textbf{Proof}}
```

7.3 Floating Objects Style

Set the skip to the context for floating object with argument ‘h’.

```
275 \setlength{\intextsep}{0.7\baselineskip plus 0.1\baselineskip minus 0.1\baselineskip}
```

Set the skip to the context for top or bottom floating object.

```
276 \setlength{\textfloatsep}{0.8\baselineskip plus 0.1\baselineskip mi-
    nus 0.2\baselineskip}
```

Set the fraction of floating object. Make the fraction less crowded than default value to prevent floating object occupying too much space.

```
277 \renewcommand{\textfraction}{0.15}
278 \renewcommand{\topfraction}{0.85}
279 \renewcommand{\bottomfraction}{0.65}
280 \renewcommand{\floatpagefraction}{0.60}
```

7.4 Table Style

`\tabincell` A command make it easier to insert a new table into an existing cell.

```
281 \newcommand{\tabincell}[2]{\begin{tabular}{@{}#1@{}}#2\end{tabular}}
```

(End definition for \tabincell. This function is documented on page ??.)

To prevent `\cline` breaking page in `longtable` environment, use in this way: `\table content * \nopagebreak \cline{i-j}`³

```
282 \def\@cline#1-#2\@nil{%
283   \omit
284   \@multicnt#1%
285   \advance\@multispan\m@ne
286   \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
287   \@multicnt#2%
288   \advance\@multicnt-#1%
289   \advance\@multispan\@ne
290   \leaders\hrule\@height\arrayrulewidth\hfill
291   \cr
292   \noalign{\nobreak\vskip-\arrayrulewidth}}
```

Here we set the global font setting (font size: 11pt and line spread: 1.4) for tables. But first we will declare a variable to determine whether table global font setting is activated.

```
293 \newif\ifITEC@useoldtabular
294 \ITEC@useoldtabularfalse
```

`\TurnOffTabFontSetting` Use `\TurnOffTabFontSetting` to deactivate global font setting.

```
295 \def\TurnOffTabFontSetting{\ITEC@useoldtabulartrue}
```

(End definition for \TurnOffTabFontSetting. This function is documented on page 14.)

³Reference:<http://tex.stackexchange.com/questions/52100/longtable-multirow-problem-with-cline-and-nopagebreak>

`\TurnOnTabFontSetting` Use `\TurnOnTabFontSetting` to activate global font setting.

```
296 \def\TurnOnTabFontSetting{\ITEC@useoldtabularfalse}
```

(End definition for `\TurnOnTabFontSetting`. This function is documented on page 14.)

Hook the `tabular`, `tabularx` and `longtable` environment to imply the global font setting.

```
297 \AtBeginEnvironment{tabular}{  
298   \ifITEC@useoldtabular\else  
299     \fontsize{11pt}{15.4pt}\selectfont  
300   \fi  
301 }  
302 \AtBeginEnvironment{tabularx}{  
303   \ifITEC@useoldtabular\else  
304     \fontsize{11pt}{15.4pt}\selectfont  
305   \fi  
306 }  
307 \AtBeginEnvironment{longtable}{  
308   \ifITEC@useoldtabular\else  
309     \fontsize{11pt}{15.4pt}\selectfont  
310   \fi  
311 }
```

7.5 Caption Style

Set caption font size as 11pt, use hang format, remove ‘:’ after number and set the skip between context as 12pt.

```
312 \DeclareCaptionFont{ITEC@captionfont}{\fontsize{11pt}{13.2pt}\selectfont}  
313 \DeclareCaptionLabelFormat{ITEC@caplabel}{#1~#2}  
314 \captionsetup{  
315   font=ITEC@captionfont,  
316   labelformat=ITEC@caplabel,  
317   format=hang,  
318   labelsep=quad,  
319   skip=12pt  
320 }
```

Set figure and table numbering style.

```
321 \renewcommand{\thetable}{\arabic{chapter}.\arabic{table}}  
322 \renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}
```

7.6 Code Highlight Style

```
323 \definecolor{ITEC@lstgreen}{rgb}{0,0.6,0}
324 \definecolor{ITEC@lstmauve}{rgb}{0.58,0,0.82}
325
326 \lstset{
327   basicstyle=\footnotesize\ttfamily\linespread{1}\selectfont
328   %<class-zh>\FANGSONG
329   ,
330   keywordstyle=\color{blue}\bfseries,
331   commentstyle=\color{ITEC@lstgreen}\itshape
332   %<class-zh>\KAI
333   ,
334   stringstyle=\color{ITEC@lstmauve},
335   showspaces=false,
336   showstringspaces=false,
337   showtabs=false,
338   numbers=left,
339   numberstyle=\tiny\color{black},
340   frame=lines,
341   rulecolor=\color{black},
342   breaklines=true
343 }
```

7.7 Section Title Style

Set the numbering depth for section.

```
344 \setcounter{secnumdepth}{3}
```

Chapter title format and spacing setting.

```
345 \titleformat{\chapter}
346 {
347   \bfseries
348   %<class-zh>\HEI
349   \centering
350   \fontsize{18pt}{21.6pt}\selectfont
351 }
352 %<class-zh>{\zhnumber{\thechapter}}
353 %<class-en>{Chapter~\thechapter}
354 {1em}
355 {}
356 \titlespacing*{\chapter}{0pt}{0pt}{20pt}
```

Section tilte format and spacing setting.

```
357 \titleformat*{\section}{\bfseries
358 %<class-zh>\HEI
359 \fontsize{16pt}{19.2pt}\selectfont}
360 \titlespacing*{\section}{0pt}{18pt}{6pt}
```

Subsection tilte format and spacing setting.

```
361 \titleformat*{\subsection}{\bfseries
362 %<class-zh>\HEI
363 \fontsize{14pt}{16.8pt}\selectfont}
364 \titlespacing*{\subsection}{0pt}{12pt}{6pt}
```

Subsubsection tilte format and spacing setting.

```
365 \titleformat*{\subsubsection}{\bfseries
366 %<class-zh>\HEI
367 \fontsize{13pt}{15.6pt}\selectfont}
368 \titlespacing*{\subsubsection}{0pt}{12pt}{6pt}
```

7.8 TOC Style

TOC depth.

```
369 \setcounter{tocdepth}{2}
```

TOC right margin.

```
370 \contentsmargin{2.0em}
```

Remove vertical space between two continues chapter entries. ⁴

```
371 \newskip\ITEC@oldcftbeforechapskip
372 \ITEC@oldcftbeforechapskip=\cftbeforechapskip
373 \newskip\ITEC@oldcftbeforesecskip
374 \ITEC@oldcftbeforesecskip=\cftbeforesecskip
375 \let\ITEC@oldl@chapter\l@chapter
376 \let\ITEC@oldl@section\l@section
377 \let\ITEC@oldl@subsection\l@subsection
378 \def\l@chapter#1#2{\ITEC@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
379 \def\l@section#1#2{\ITEC@oldl@section{#1}{#2}\cftbeforechapskip=\ITEC@oldcftbeforech
380 \def\l@subsection#1#2{\ITEC@oldl@subsection{#1}{#2}\cftbeforesecskip=\ITEC@oldcftbef
```

Set LOF LOT style. ⁵

```
381 \renewcommand*\cftfigpresnum{\figurename~}
382 \newlength{\ITEC@cftfignumwidth@tmp}
```

⁴Reference:<http://tex.stackexchange.com/questions/89103/remove-vertical-space-between-two-chapters-in-table-of-contents-in-latex>

⁵Reference:<http://www.latex-community.org/viewtopic.php?f=5&t=1838>

```

383 \settowidth{\ITEC@cftfignumwidth@tmp}{\cftfigpresnum}
384 \addtolength{\cftfignumwidth}{\ITEC@cftfignumwidth@tmp}
385 \renewcommand{\cftfigaftersnumb}{\quad~}
386 \renewcommand*\cfttabpresnum{\tablename~}
387 \newlength{\ITEC@cfttabnumwidth@tmp}
388 \settowidth{\ITEC@cfttabnumwidth@tmp}{\cfttabpresnum}
389 \addtolength{\cfttabnumwidth}{\ITEC@cfttabnumwidth@tmp}
390 \renewcommand{\cfttabaftersnumb}{\quad~}

```

7.9 Head & Foot Style

```

391 \let\ps@plain\ps@fancy
392 \pagestyle{fancy}
393 \fancyhf{}
394 \renewcommand{\headrulewidth}{0.4pt}
395 \fancyhead[L]{\textbf{\leftmark}}
396 \fancyhead[R]{\rightmark}
397 \fancyfoot[C]{\thepage}
398 \renewcommand{\chaptermark}[1]{
399     \markboth{
400         \ifITEC@inappendix
401             \appendixname~\thechapter
402         \else
403             %<class-zh>第\zhnumber{\thechapter}章
404             %<class-en>Chapter~\thechapter
405             \fi
406         \hspace{.8em}#1}{ }
407 }
408 \renewcommand{\sectionmark}[1]{
409     \StrLen{#1}[\ITEC@secmark@tmplen]
410     \ifthenelse{\ITEC@secmark@tmplen<20}
411     {\markright{\thesection\hspace{.8em}\emph{#1}}}
412     {\markright{}}
413 }

```

7.10 List Environment Style

```

414 \setlist{noitemsep,partopsep=0pt,topsep=.8ex}
415 \setlist[1]{labelindent=\parindent}
416 \setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}
417 \setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}
418 \setlist[enumerate,3]{label=\emph{\alph*},ref=\theenumii\emph{\alph*}}

```

```

419 \setlist[description]{font=\bfseries
420 %<class-zh>\HEI
421 }

```

7.11 Footnote Style

```

422 \MakePerPage{footnote}

```

8 Variables Setting

A command to set report number.

\reportno

```

423 \def\reportno#1{\gdef\ITEC@reportno{#1}}
424 \reportno{}

```

(End definition for \reportno. This function is documented on page 12.)

\zhtitle Commands to set the title.

\entitle₄₂₅ %<*class-zh>

```

\title426 \def\zhtitle#1{\gdef\ITEC@zhtitle{#1}\hypersetup{pdftitle={#1}}}
427 \def\entitle#1{\gdef\ITEC@entitle{#1}}
428 \def\title#1#2{\zhtitle{#1}\entitle{#2}}
429 \title{}{}
430 %</class-zh>
431 %<*class-en>
432 \def\title#1{\gdef\ITEC@entitle{#1}\hypersetup{pdftitle={#1}}}
433 \title{}
434 %</class-en>

```

(End definition for \zhtitle, \entitle, and \title. These functions are documented on page 5.)

\zhauthor Commands to set the author.

\enauthor₄₃₅ %<*class-zh>

```

\author436 \def\zhauthor#1{\gdef\ITEC@zhauthor{#1}\hypersetup{pdfauthor={#1}}}
437 \def\enauthor#1{\gdef\ITEC@enauthor{#1}}
438 \def\author#1#2{\zhauthor{#1}\enauthor{#2}}
439 \author{}{}
440 %</class-zh>
441 %<*class-en>
442 \def\author#1{\gdef\ITEC@enauthor{#1}\hypersetup{pdfauthor={#1}}}
443 \author{}
444 %</class-en>

```


(End definition for `\zhauthor`, `\enauthor`, and `\author`. These functions are documented on page 5.)

`\date` A command to set the date and several commands to display date.

```
\zhdateformat445 \def\date#1#2#3{
\enddateformat446 \setdate{#1}{#2}{#3}
\dateformat447 }
448 \setdatetoday
449 %<*class-zh>
450 \def\zhdateformat{~\thedateyear~年~\thedatemonth~月~\thededay~日}
451 \def\enddateformat{\datedate}
452 %</class-zh>
453 %<*class-en>
454 \def\enddateformat{\datedate}
455 \let\dateformat\enddateformat
456 %</class-en>
```

(End definition for `\date` and others. These functions are documented on page 12.)

`\zhsupervisor` Commands to set the supervisor.

```
\ensupervisor457 %<*class-zh>
\supervisor458 \def\zhsupervisor#1{\gdef\ITEC@zhsupervisor{#1}}
459 \def\ensupervisor#1{\gdef\ITEC@ensupervisor{#1}}
460 \def\supervisor#1#2{\zhsupervisor{#1}\ensupervisor{#2}}
461 \supervisor{}{}
462 %</class-zh>
463 %<*class-en>
464 \def\supervisor#1{\gdef\ITEC@ensupervisor{#1}}
465 \supervisor{}
466 %</class-en>
```

(End definition for `\zhsupervisor`, `\ensupervisor`, and `\supervisor`. These functions are documented on page 6.)

`\zhabstract` Commands to set the abstract.

```
\enabstract467 %<*class-zh>
\abstract468 \long\def\zhabstract#1{\long\gdef\ITEC@zhabstract{#1}}
469 \long\def\enabstract#1{\long\gdef\ITEC@enabstract{#1}}
470 \long\def\abstract#1#2{\zhabstract{#1}\enabstract{#2}}
471 \abstract{}{}
472 %</class-zh>
473 %<*class-en>
474 \long\def\abstract#1{\long\gdef\ITEC@enabstract{#1}}
```

```

475 \abstract{}
476 %</class-en>

```

(End definition for \zhabstract, \enabstract, and \abstract. These functions are documented on page 6.)

\zhkeywords Commands to set the keywords.

```

\enkeywords477 %<*class-zh>
\keywords478 \def\zhkeywords#1{\gdef\ITEC@zhkeywords{#1}\hypersetup{pdfkeywords={#1}}}
479 \def\enkeywords#1{\gdef\ITEC@enkeywords{#1}}
480 \def\keywords#1#2{\zhkeywords{#1}\enkeywords{#2}}
481 \keywords{}{}
482 %</class-zh>
483 %<*class-en>
484 \def\keywords#1{\gdef\ITEC@enkeywords{#1}\hypersetup{pdfkeywords={#1}}}
485 \keywords{}
486 %</class-en>

```

(End definition for \zhkeywords, \enkeywords, and \keywords. These functions are documented on page 6.)

9 Specical Page

```

\frontmatter
\mainmatter487 \def\frontmatter{
\backmatter488 \clearpage
489 \@mainmatterfalse
490 \pagenumbering{Roman}
491 }
492 \def\mainmatter{
493 \clearpage
494 \@mainmattertrue
495 \pagenumbering{arabic}
496 }
497 \def\backmatter{
498 \clearpage
499 \@mainmatterfalse
500 \settocdepth{chapter}
501 \hypersetup{bookmarksopenlevel=0}
502 }

```

(End definition for \frontmatter, \mainmatter, and \backmatter. These functions are documented on page 12.)

Chinese title page.

```

503 %<*class-zh>
504 \def\ITEC@zhtitlepage{
505   \begin{center}
506   \ifthenelse{\equal{\ITEC@reportno}{}}{
507     \null
508   }{
509     \begin{flushright}
510       {\Large \ttfamily No.~\ITEC@reportno}
511     \end{flushright}
512   }
513   \vskip 2cm
514   {\LARGE \ITEC@zhtitletitle}\[0.5cm]
515   \rule{\linewidth}{0.5mm}\[0.55cm]
516   {\LARGE \bfseries \sffamily \HEI \ITEC@zhtitle}\[0.35cm]
517   \rule{\linewidth}{0.5mm}\[3.5cm]
518   \begin{minipage}[t]{0.8\textwidth}
519     \TurnOffTabFontSetting
520     \Large
521     \setlength{\extrarowheight}{5pt}
522     \begin{tabular}{r@{: }l}
523       \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhauthortitle}} &
524       \parbox[t][][t]{15em}{\ITEC@zhauthor}
525       \ifthenelse{\equal{\ITEC@zhsupervisor}{}}{ }{
526         \\
527         \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhsupervisortitle}} &
528         \parbox[t][][t]{15em}{\ITEC@zhsupervisor}
529       }
530     \end{tabular}
531     \TurnOnTabFontSetting
532   \end{minipage}
533   \vfill
534   {\Large \zhdateformat}
535   \end{center}
536 }
537 %</class-zh>

```

English title page.

```

538 \def\ITEC@entitlepage{
539   \begin{center}

```

```

540 \ifthenelse{\equal{\ITEC@reportno}{}}{
541   \null
542 }{
543   \begin{flushright}
544     {\Large \ttfamily No.\~\ITEC@reportno}
545   \end{flushright}
546 }
547 \vskip 1.5cm
548 {\Large \scshape \ITEC@entitletitle}\\[0.5cm]
549 \rule{\linewidth}{0.5mm}\\[0.55cm]
550 {\LARGE \bfseries \sffamily \ITEC@entitle}\\[0.35cm]
551 \rule{\linewidth}{0.5mm}\[3.5cm]
552 \begin{minipage}[t]{0.8\textwidth}
553 \TurnOffTabFontSetting
554 \Large
555 \setlength{\extrarowheight}{5pt}
556 \begin{tabular}{r@{~:~}l}
557   \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@enauthortitle}} &
558   \parbox[t][][t]{15em}{\ITEC@enauthor}
559   \ifthenelse{\equal{\ITEC@ensupervisor}{}}{}{
560     \\
561     \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@ensupervisortitle}} &
562     \parbox[t][][t]{15em}{\ITEC@ensupervisor}
563   }
564 \end{tabular}
565 \TurnOnTabFontSetting
566 \end{minipage}
567 \vfill
568 {\Large \enddateformat}
569 \end{center}
570 }

```

\maketitle Commands to generate title page.

```

\makecover571 \def\maketitle{
572   \begingroup
573   \hypersetup{allcolors=black}
574   \let\ITEC@oldthepage\thepage
575   %<class-zh>\def\thepage{封面}
576   %<class-en>\def\thepage{Titlepage}
577   \begin{titlepage}
578   %<*class-zh>

```

```

579 \thispagestyle{empty}
580 \ITEC@zhtitlepage
581 \clearpage
582 %</class-zh>
583 \thispagestyle{empty}
584 \ITEC@entitlepage
585 \end{titlepage}
586 \let\thepage\ITEC@oldthepage
587 \setcounter{page}{1}
588 \endgroup
589 }
590 \let\makecover\maketitle

```

(End definition for `\maketitle` and `\makecover`. These functions are documented on page 13.)

Chinese abstract page.

```

591 %<*class-zh>
592 \def\ITEC@zhabstractpage{
593 \chapter*{\ITEC@zhabstractname}
594 \ITEC@zhabstract \par
595 \vskip 1.2ex
596 \noindent\heif{\ITEC@zhkeywordstitle}\hspace{.8em} \ITEC@zhkeywords
597 }
598 %</class-zh>

```

English abstract page.

```

599 \def\ITEC@enabstractpage{
600 \chapter*{\ITEC@enabstractname}
601 \ITEC@enabstract \par
602 \vskip 1.2ex
603 \noindent\textbf{\ITEC@enkeywordstitle}\hspace{.8em} \ITEC@enkeywords
604 }

```

`\makeabstract` A command to generate abstract page.

```

605 \def\makeabstract{
606 \phantomsection
607 %<*class-zh>
608 \addcontentsline{toc}{chapter}{\ITEC@zhabstractnamenospace}
609 \markboth{\ITEC@zhabstractnamenospace}{}
610 \ITEC@zhabstractpage
611 \clearpage
612 %</class-zh>
613 %<*class-en>

```

```

614 \addcontentsline{toc}{chapter}{\ITEC@enabstractname}
615 \markboth{\ITEC@enabstractname}{}
616 %</class-en>
617 \ITEC@enabstractpage
618 \clearpage
619 }

```

(End definition for \makeabstract. This function is documented on page 13.)

\tableofcontents A command to generate table of contents.

```

620 \let\ITEC@tableofcontents\tableofcontents
621 \def\tableofcontents{
622 %<*class-zh>
623 \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
624 \markboth{\contentsnamenospace}{}
625 %</class-zh>
626 %<*class-en>
627 \pdfbookmark{\contentsname}{\contentsname}
628 \markboth{\contentsname}{}
629 %</class-en>
630 \let\ITEC@oldmarkboth\markboth
631 \renewcommand\markboth[2]{}
632 \ITEC@tableofcontents
633 \let\markboth\ITEC@oldmarkboth
634 \clearpage
635 }

```

(End definition for \tableofcontents. This function is documented on page 13.)

ack A command to generate acknowledge page.

```

636 \newenvironment{ack}{
637 \clearpage
638 \phantomsection
639 %<*class-zh>
640 \addcontentsline{toc}{chapter}{\ITEC@acknamenospace}
641 \markboth{\ITEC@acknamenospace}{}
642 %</class-zh>
643 %<*class-en>
644 \addcontentsline{toc}{chapter}{\ITEC@ackname}
645 \markboth{\ITEC@ackname}{}
646 %</class-en>
647 \chapter*{\ITEC@ackname}
648 \begingroup

```

```

649 \normalsize
650 }{
651 \endgroup
652 }

```

publications A command to generate publications page.

```

653 \newenvironment{publications}{
654 \clearpage
655 \ifITEC@inappendix
656 \chapter{\ITEC@publicationtitle}
657 \markboth{\appendixname\,\thechapter\hspace{1em}\ITEC@publicationtitle}{}
658 \else
659 \phantomsection
660 \addcontentsline{toc}{chapter}{\ITEC@publicationtitle}
661 \chapter*{\ITEC@publicationtitle}
662 \markboth{\ITEC@publicationtitle}{}
663 \fi
664 \begin{enumerate}[labelindent=0pt,label={[\arabic*]}]
665 }{
666 \end{enumerate}
667 }

```

\bibliography A command to generate bibliography page. We use `thuthesis.bst` in `thuthesis` to typeset bibliography in Chinese version template. And use `IEEEtran` in English version template.

```

668 %<*class-zh>
669 \def\thudot{\unskip.}
670 \def\thumasterbib{[Master Thesis]}
671 \def\thuphdbib{[Doctor Thesis]}
672 \bibliographystyle{thuthesis}
673 %</class-zh>
674 %<class-en>\bibliographystyle{IEEEtran}
675 \let\ITEC@bibliography\bibliography
676 \def\bibliography#1{
677 \clearpage
678 \phantomsection
679 \addcontentsline{toc}{chapter}{\bibname}
680 \markboth{\bibname}{}
681 %<class-zh>\ITEC@bibliography{#1}
682 %<class-en>\ITEC@bibliography{IEEEabrv,#1}
683 }

```

(End definition for `\bibliography`. This function is documented on page 13.)

appendix The appendix environment.

```
684 \newif\ifITEC@inappendix
685 \ITEC@inappendixfalse
686 \newif\ifITEC@appendix@resetmainmatter
687 \ITEC@appendix@resetmainmatterfalse
688 \renewenvironment{appendix}{
689   \if@mainmatter
690     \ITEC@appendix@resetmainmatterfalse
691   \else
692     \ITEC@appendix@resetmainmattertrue
693     \@mainmattertrue
694   \fi
695   \appendixtitletocon
696   \appendices
697   \titleformat{\chapter}
698   {
699     \bfseries
700     %<class-zh>\HEI
701     \centering
702     \fontsize{18pt}{21.6pt}\selectfont
703   }
704   {\appendixname\,\thechapter}
705   {1em}
706   {}
707   \ITEC@inappendixtrue
708 }{
709   \endappendices
710   \ITEC@inappendixfalse
711   \ifITEC@appendix@resetmainmatter
712     \ITEC@appendix@resetmainmatterfalse
713     \@mainmatterfalse
714   \else\fi
715 }
```

\listoffigures A command to generate list of figures.

```
716 \let\ITEC@listoffigures\listoffigures
717 \def\listoffigures{
718   \clearpage
719   \ifITEC@inappendix
```



```

720     \addtocounter{chapter}{1}
721     \def\listfigurename{\appendixname\,\thechapter\hspace{1em}\ITEC@listfigurename}
722 \else
723     \def\listfigurename{\ITEC@listfigurename}
724 \fi
725 \phantomsection
726 \ifITEC@inappendix
727     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@listfigurename}
728 \else
729     \addcontentsline{toc}{chapter}{\listfigurename}
730 \fi
731 \markboth{\listfigurename}{}
732 \let\ITEC@oldmarkboth\markboth
733 \renewcommand\markboth[2]{}
734 \ITEC@listoffigures
735 \let\markboth\ITEC@oldmarkboth
736 \def\listfigurename{\ITEC@listfigurename}
737 }

```

(End definition for \listoffigures. This function is documented on page 13.)

\listoftables A command to generate list of tables.

```

738 \let\ITEC@listoftables\listoftables
739 \def\listoftables{
740     \clearpage
741     \ifITEC@inappendix
742         \addtocounter{chapter}{1}
743         \def\listtablename{\appendixname\,\thechapter\hspace{1em}\ITEC@listtablename}
744     \else
745         \def\listtablename{\ITEC@listtablename}
746     \fi
747     \phantomsection
748     \ifITEC@inappendix
749         \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@listtablename}
750     \else
751         \addcontentsline{toc}{chapter}{\listtablename}
752     \fi
753     \markboth{\listtablename}{}
754     \let\ITEC@oldmarkboth\markboth
755     \renewcommand\markboth[2]{}
756     \ITEC@listoftables
757     \let\markboth\ITEC@oldmarkboth

```

```
758 \def\listtablename{\ITEC@listtablename}  
759 }
```

(End definition for \listoftables. This function is documented on page 13.)

10 Other Command

\email

```
760 \def\email#1{  
761 \href{mailto:#1}{\texttt{#1}}  
762 }
```

(End definition for \email. This function is documented on page 14.)

```
763 %</class>
```

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