

# 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 v1.0, dated 2013/06/01.

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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<sup>1</sup>:
  - 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。

---

<sup>1</sup>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<sub>E</sub>X 工程根目录下即可。

## 3 基本用法



本文档只能使用 X<sub>Y</sub>L<sup>A</sup>T<sub>E</sub>X 或 LuaL<sup>A</sup>T<sub>E</sub>X（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{&lt;Report Number&gt;}</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{&lt;Chinese title&gt;}</code>
<code>\entitle</code>	<code>\entitle{&lt;English title&gt;}</code>
<code>\title</code>	<code>\title{&lt;Chinese title&gt;}{&lt;English title&gt;}</code>

这一组命令用于设定文档的中英文标题。

---

<code>\zhauthor</code>	<code>\zhauthor{&lt;Chinese author&gt;}</code>
<code>\enauthor</code>	<code>\enauthor{&lt;English author&gt;}</code>
<code>\author</code>	<code>\author{&lt;Chinese author&gt;}{&lt;English author&gt;}</code>

这一组命令用于设定文档的中英文作者名。

---

<code>\date</code>	<code>\date{&lt;Year&gt;}{&lt;Month&gt;}{&lt;Day&gt;}</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{&lt;Chinese supervisor&gt;}</code>
<code>\ensupervisor</code>	<code>\ensupervisor{&lt;English supervisor&gt;}</code>
<code>\supervisor</code>	<code>\supervisor{&lt;Chinese supervisor&gt;}{&lt;English supervisor&gt;}</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{&lt;Chinese abstract&gt;}</code>
<code>\enabstract</code>	<code>\enabstract{&lt;English abstract&gt;}</code>
<code>\abstract</code>	<code>\abstract{&lt;Chinese abstract&gt;}{&lt;English abstract&gt;}</code>

---

这一组命令用于设定文档的中英文摘要。

---

<code>\zhkeywords</code>	<code>\zhkeywords{&lt;Chinese keywords&gt;}</code>
<code>\enkeywords</code>	<code>\enkeywords{&lt;English keywords&gt;}</code>
<code>\keywords</code>	<code>\keywords{&lt;Chinese keywords&gt;}{&lt;English keywords&gt;}</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>\frontmatter</code>
<code>\mainmatter</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{\textit{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。
- **xy-pic** 用于绘制简单图形。如需更高级功能可以使用 **tikz** 宏包。
- **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  $\text{Xe}_{\text{L}}\text{A}_{\text{T}}\text{E}_{\text{X}}$ ) 和宏包 **luatex-jaf** (对于  $\text{Lua}_{\text{L}}\text{A}_{\text{T}}\text{E}_{\text{X}}$ ) 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  $\text{\TeX}$  project root directory.

## 3 Usage



*This template can only be compiled by  
Xe<sub>Λ</sub>TeX or Lua<sub>Λ</sub>TeX (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{<i>Report Number</i>}</code>
------------------------	--

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

---

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

Set title.

---

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

Set author.

---

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

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

---

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

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

---

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

Put your abstract.

---

<code>\keywords</code>	<code>\keywords{<i>keywords</i>}</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 <a href="#">section 4</a> .
<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{&lt;.bib file&gt;}</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.
- **xy-pic** To draw some picture. If you need more advanced features, use the package **tikz**.

## 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<sub>La</sub>TeX and Lua<sub>La</sub>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  $\text{Xe}^{\text{L}}\text{A}^{\text{T}}\text{E}^{\text{X}}$ ) or `luatex-j` package (for  $\text{Lua}^{\text{L}}\text{A}^{\text{T}}\text{E}^{\text{X}}$ , 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-jā 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 \setsansfont{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

Use **interfaces** package to handle font size and line spread. We set global line spread to 1.2.

```
88 \RequirePackage{interfaces-Latex}
89 \changeont{linespread=1.2}
```

Use `geometry` package to handle paper page.

```
90 \RequirePackage{geometry}
91 \geometry{
92   a4paper,
93   top=1.2in,
94   bottom=1.2in,
95   left=1in,
96   right=1in,
97   includefoot
98 }
99 \pdfpagewidth=\paperwidth
100 \pdfpageheight=\paperheight
```

Indent of paragraph and skip between paragraphs.

```
101 \RequirePackage{indentfirst}
102 \setlength{\parindent}{2em}
103 \setlength{\parskip}{0pt plus 2pt minus 1pt}
```

Packages to handle color.

```
104 \RequirePackage{color}
105 \RequirePackage[table]{xcolor}
```

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

```
106 \RequirePackage[unicode]{hyperref}
107 \definecolor{ITEC@hyperreflinkred}{RGB}{128,23,31}
108 \hypersetup{
109   bookmarksnumbered=true,
110   bookmarksopen=true,
111   bookmarksopenlevel=1,
112   breaklinks=true,
113   colorlinks=true,
114   allcolors=ITEC@hyperreflinkred,
115   linktoc=page,
116   plainpages=false,
117   pdfpagelabels=true,
118   pdfstartview={XYZ null null 1},
119 <class-zh>\pdfinfo={Template.Info={itecreport-zh.cls 2013/06/01, Copyright (C) 2013-2014
120 <class-en>\pdfinfo={Template.Info={itecreport-en.cls 2013/06/01, Copyright (C) 2013-2014
121 }
```

## 5 Load Packages

Load packages for math.

```
122 \RequirePackage{amsmath,amssymb,amsfonts}
123 \RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
124 \RequirePackage{fancytsum}
125 \setfnumgsym{\,,}
126 \RequirePackage[lined,boxed,linesnumbered,ruled,vlined]{algorithm2e}
```

Load packages for picture.

```
127 \RequirePackage[all]{xy}
128 \RequirePackage{overpic}
129 \RequirePackage{graphicx,caption,subcaption}
```

Load packages for table.

```
130 \RequirePackage{array}
131 \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`.

```
132 \RequirePackage{listings}
```

Load package for bibliography cite style.

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

Other packages for style setting.

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

## 6 Localization

Chinese localization.<sup>2</sup>

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

---

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



```

180 \SetAlgorithmName{算法}{算法}{算法索引}
181 \SetAlgoProcName{过程}{过程}
182 \SetAlgoFuncName{函数}{函数}
183 \def\AlgoLineautorefname~#1\null{第~#1~行\null}
184 \</class-zh>

```

English localization.

```

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

```

Internal variables.

```

216 \<*class-en | class-zh>

```

```

217 \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}
218 \def\ITEC@enauthortitle{Author}
219 \def\ITEC@ensupervisortitle{Supervisor}
220 \def\ITEC@enabstractname{Abstract}
221 \def\ITEC@enkeywordstitle{Key words:}
222 </class-en | class-zh>
223 <*class-en>
224 \def\ITEC@ackname{Acknowledge}
225 \def\ITEC@publicationtitle{Publication}
226 </class-en>
227 <*class-zh>
228 \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}
229 \def\ITEC@zhauthortitle{作者}
230 \def\ITEC@zhsupervisortitle{指导教师}
231 \def\ITEC@zhabstractname{摘\hspace{1em}要}
232 \def\ITEC@zhabstractnamenospace{摘要}
233 \def\ITEC@zhkeywordstitle{关键词: }
234 \def\ITEC@ackname{致\hspace{1em}谢}
235 \def\ITEC@acknamenospace{致谢}
236 \def\ITEC@publicationtitle{在实验室期间发表的学术论文}
237 </class-zh>

    Set \listfigurename and \listtablename.
238 \def\listfigurename{\ITEC@listfigurename}
239 \def\listtablename{\ITEC@listtablename}

```

## 7 Style Setting

### 7.1 Equation Style

Allow long equation breaking between lines or pages.

```

240 \allowdisplaybreaks[4]

```

Set skip between equation and context.

```

241 \abovedisplayskip=10bp plus 2bp minus 2bp
242 \abovedisplayshortskip=10bp plus 2bp minus 2bp
243 \belowdisplayskip=\abovedisplayskip
244 \belowdisplayshortskip=\abovedisplayshortskip

```

Set equation numbering style.

```
245 \numberwithin{equation}{chapter}
```

## 7.2 Theorem Style

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

```
246 \theoremnumbering{arabic}
247 <class-zh>\theoremseparator{: }
248 <class-en>\theoremseparator{:}
249 \theorempreskip{1.2ex plus 0ex minus 1ex}
250 \theorempostskip{1.2ex plus 0ex minus 1ex}
251 \theoremheaderfont{\normalfont\bfseries\HEI}
252 \theoremsymbol{}
253
254 \theoremstyle{definition}
255 \theorembodyfont{\normalfont}
256 <class-zh>\newtheorem{definition}{定义}[chapter]
257 <class-en>\newtheorem{definition}{Definition}[chapter]
258
259 \theoremstyle{plain}
260 \theorembodyfont{\itshape}
261 <class-zh>\newtheorem{proposition}{命题}[chapter]
262 <class-en>\newtheorem{proposition}{Proposition}[chapter]
263 <class-zh>\newtheorem{lemma}{引理}[chapter]
264 <class-en>\newtheorem{lemma}{Lemma}[chapter]
265 <class-zh>\newtheorem{theorem}{定理}[chapter]
266 <class-en>\newtheorem{theorem}{Theorem}[chapter]
267 <class-zh>\newtheorem{axiom}{公理}[chapter]
268 <class-en>\newtheorem{axiom}{Axiom}[chapter]
269 <class-zh>\newtheorem{corollary}{推论}[chapter]
270 <class-en>\newtheorem{corollary}{Corollary}[chapter]
271 <class-zh>\newtheorem{exercise}{练习}[chapter]
272 <class-en>\newtheorem{exercise}{Exercise}[chapter]
273 <class-zh>\newtheorem{example}{例}[chapter]
274 <class-en>\newtheorem{example}{Example}[chapter]
275
276 <class-zh>\def\proofname{\hei{证明}}
277 <class-en>\def\proofname{\textbf{Proof}}
```

### 7.3 Floating Objects Style

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

```
278 \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.

```
279 \setlength{\textfloatsep}{0.8\baselineskip plus 0.1\baselineskip minus 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.

```
280 \renewcommand{\textfraction}{0.15}
281 \renewcommand{\topfraction}{0.85}
282 \renewcommand{\bottomfraction}{0.65}
283 \renewcommand{\floatpagefraction}{0.60}
```

### 7.4 Table Style

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

```
284 \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}`<sup>3</sup>

```
285 \def\@cline#1-#2\@nil{%
286   \omit
287   \@multicnt#1%
288   \advance\@multispan\m@ne
289   \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
290   \@multicnt#2%
291   \advance\@multicnt-#1%
292   \advance\@multispan\@ne
293   \leaders\hrule\@height\arrayrulewidth\hfill
294   \cr
295   \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.

```
296 \newif\ifITEC@useoldtabular
```

---

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

```
297 \ITEC@useoldtabularfalse
```

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

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

*(End definition for `\TurnOffTabFontSetting`. This function is documented on page 15.)*

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

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

*(End definition for `\TurnOnTabFontSetting`. This function is documented on page 15.)*

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

```
300 \AtBeginEnvironment{tabular}{
```

```
301   \ifITEC@useoldtabular\else
```

```
302     \changeont{size=11pt,linespread=1.4}
```

```
303   \fi
```

```
304 }
```

```
305 \AtBeginEnvironment{tabularx}{
```

```
306   \ifITEC@useoldtabular\else
```

```
307     \changeont{size=11pt,linespread=1.4}
```

```
308   \fi
```

```
309 }
```

```
310 \AtBeginEnvironment{longtable}{
```

```
311   \ifITEC@useoldtabular\else
```

```
312     \changeont{size=11pt,linespread=1.4}
```

```
313   \fi
```

```
314 }
```

## 7.5 Caption Style

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

```
315 \DeclareCaptionFont{ITEC@captionfont}{\changeont{size=11pt}}
```

```
316 \DeclareCaptionLabelFormat{ITEC@caplabel}{#1~#2}
```

```
317 \captionsetup{
```

```
318   font=ITEC@captionfont,
```

```
319   labelformat=ITEC@caplabel,
```

```
320   format=hang,
```

```
321   labelsep=quad,
```

```
322   skip=12pt
```

```
323 }
```

Set figure and table numbering style.

```
324 \renewcommand{\thetable}{\arabic{chapter}.\arabic{table}}
325 \renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}
```

## 7.6 Code Highlight Style

```
326 \definecolor{ITEC@lstgreen}{rgb}{0,0.6,0}
327 \definecolor{ITEC@lstmauve}{rgb}{0.58,0,0.82}
328
329 \lstset{
330   basicstyle=\footnotesize\ttfamily\changeont{linespread=1}
331   <class-zh>\FANGSONG
332   ,
333   keywordstyle=\color{blue}\bfseries,
334   commentstyle=\color{ITEC@lstgreen}\itshape
335   <class-zh>\KAI
336   ,
337   stringstyle=\color{ITEC@lstmauve},
338   showspaces=false,
339   showstringspaces=false,
340   showtabs=false,
341   numbers=left,
342   numberstyle=\tiny\color{black},
343   frame=lines,
344   rulecolor=\color{black},
345   breaklines=true
346 }
```

## 7.7 Section Title Style

Set the numbering depth for section.

```
347 \setcounter{secnumdepth}{3}
```

Chapter title format and spacing setting.

```
348 \titleformat{\chapter}
349 {
350   \bfseries
351   <class-zh>\HEI
352   \centering
353   \changeont{size=18pt}
354 }
355 <class-zh>{\zhnumber{\thechapter}}
```

```

356 <class-en>\{Chapter~\thechapter}
357   {1em}
358   {}
359 \titlespacing*{\chapter}{0pt}{0pt}{20pt}

```

Section title format and spacing setting.

```

360 \titleformat*{\section}{\bfseries
361 <class-zh>\HEI
362 \changeont{size=16pt}}
363 \titlespacing*{\section}{0pt}{18pt}{6pt}

```

Subsection title format and spacing setting.

```

364 \titleformat*{\subsection}{\bfseries
365 <class-zh>\HEI
366 \changeont{size=14pt}}
367 \titlespacing*{\subsection}{0pt}{12pt}{6pt}

```

Subsubsection title format and spacing setting.

```

368 \titleformat*{\subsubsection}{\bfseries
369 <class-zh>\HEI
370 \changeont{size=13pt}}
371 \titlespacing*{\subsubsection}{0pt}{12pt}{6pt}

```

## 7.8 TOC Style

TOC depth.

```

372 \setcounter{tocdepth}{2}

```

TOC right margin.

```

373 \contentsmargin{2.0em}

```

Remove vertical space between two continues chapter entries. <sup>4</sup>

```

374 \newskip\ITEC@oldcftbeforechapskip
375 \ITEC@oldcftbeforechapskip=\cftbeforechapskip
376 \newskip\ITEC@oldcftbeforesecskip
377 \ITEC@oldcftbeforesecskip=\cftbeforesecskip
378 \let\ITEC@oldl@chapter\l@chapter
379 \let\ITEC@oldl@section\l@section
380 \let\ITEC@oldl@subsection\l@subsection
381 \def\l@chapter#1#2{\ITEC@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
382 \def\l@section#1#2{\ITEC@oldl@section{#1}{#2}\cftbeforechapskip=\ITEC@old-
  cftbeforechapskip\cftbeforesecskip=3pt}

```

---

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

```

383 \def\l@section#1#2{\ITEC@oldl@section{#1}{#2}\cftbeforesecskip=\ITEC@old-
    cftbeforesecskip}

```

Set LOF LOT style.<sup>5</sup>

```

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

```

## 7.9 Head & Foot Style

```

394 \let\ps@plain\ps@fancy
395 \pagestyle{fancy}
396 \fancyhf{}
397 \renewcommand{\headrulewidth}{0.4pt}
398 \fancyhead[L]{\textbf{\leftmark}}
399 \fancyhead[R]{\rightmark}
400 \fancyfoot[C]{\thepage}
401 \renewcommand{\chaptermark}[1]{
402     \markboth{
403         \ifITEC@inappendix
404             \appendixname~\thechapter
405         \else
406             \langle class-zh \rangle 第\zhnumber{\thechapter}章
407             \langle class-en \rangle Chapter~\thechapter
408         \fi
409         \hspace{.8em}#1}{ }
410 }
411 \renewcommand{\sectionmark}[1]{
412     \StrLen{#1}[\ITEC@secmark@tmplen]
413     \ifthenelse{\ITEC@secmark@tmplen<20}
414         {\markright{\thesection\hspace{.8em}\emph{#1}}}
415         {\markright{}}
416 }

```

---

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



## 7.10 List Environment Style

```
417 \setlist{noitemsep,partopsep=0pt,topsep=.8ex}
418 \setlist[1]{labelindent=\parindent}
419 \setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}
420 \setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}
421 \setlist[enumerate,3]{label=\emph{\alph*}),ref=\theenumii\emph{\alph*}}
422 \setlist[description]{font=\bfseries
423 <class-zh>\HEI
424 }
```

## 7.11 Footnote Style

```
425 \MakePerPage{footnote}
```

# 8 Variables Setting

A command to set report number.

**\reportno**

```
426 \def\reportno#1{\gdef\ITEC@reportno{#1}}
427 \reportno{}
```

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

**\zhtitle** Commands to set the title.

**\entitle** 428 <\*class-zh>

```
\title 429 \def\zhtitle#1{\gdef\ITEC@zhtitle{#1}\hypersetup{pdftitle={#1}}}
430 \def\entitle#1{\gdef\ITEC@entitle{#1}}
431 \def\ttitle#1#2{\zhtitle{#1}\entitle{#2}}
432 \title{}{}
433 </class-zh>
434 <*class-en>
435 \def\ttitle#1{\gdef\ITEC@entitle{#1}\hypersetup{pdftitle={#1}}}
436 \title{}
437 </class-en>
```

*(End definition for \zhtitle, \entitle, and \ttitle. These functions are documented on page 13.)*

**\zhauthor** Commands to set the author.

**\enauthor** 438 <\*class-zh>

```
\author 439 \def\zhauthor#1{\gdef\ITEC@zhauthor{#1}\hypersetup{pdfauthor={#1}}}
440 \def\enauthor#1{\gdef\ITEC@enauthor{#1}}
441 \def\author#1#2{\zhauthor{#1}\enauthor{#2}}
```

```

442 \author{}{}
443 </class-zh>
444 <*class-en>
445 \def\author#1{\gdef\ITEC@enauthor{#1}\hypersetup{pdfauthor={#1}}}
446 \author{}
447 </class-en>

```

*(End definition for \zhauthor, \enauthor, and \author. These functions are documented on page 13.)*

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

```

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

```

*(End definition for \date and others. These functions are documented on page 14.)*

**\zhsupervisor** Commands to set the supervisor.

```

\ensupervisor 460 <*class-zh>
\supervisor 461 \def\zhsupervisor#1{\gdef\ITEC@zhsupervisor{#1}}
462 \def\ensupervisor#1{\gdef\ITEC@ensupervisor{#1}}
463 \def\supervisor#1#2{\zhsupervisor{#1}\ensupervisor{#2}}
464 \supervisor{}{}
465 </class-zh>
466 <*class-en>
467 \def\supervisor#1{\gdef\ITEC@ensupervisor{#1}}
468 \supervisor{}
469 </class-en>

```

*(End definition for \zhsupervisor, \ensupervisor, and \supervisor. These functions are documented on page 13.)*

**\zhabstract** Commands to set the abstract.

```

\enabstract 470 <*class-zh>
\abstract 471 \long\def\zhabstract#1{\long\gdef\ITEC@zhabstract{#1}}
472 \long\def\enabstract#1{\long\gdef\ITEC@enabstract{#1}}

```

```

473 \long\def\abstract#1#2{\zhabstract{#1}\enabstract{#2}}
474 \abstract{}{}
475 </class-zh>
476 <*class-en>
477 \long\def\abstract#1{\long\gdef\ITEC@enabstract{#1}}
478 \abstract{}
479 </class-en>

```

*(End definition for \zhabstract, \enabstract, and \abstract. These functions are documented on page 13.)*

**\zhkeywords** Commands to set the keywords.

```

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

```

*(End definition for \zhkeywords, \enkeywords, and \keywords. These functions are documented on page 13.)*

## 9 Special Page

**\frontmatter**

```

\mainmatter 490 \def\frontmatter{
\backmatter 491 \clearpage
492 \@mainmatterfalse
493 \pagenumbering{Roman}
494 }
495 \def\mainmatter{
496 \clearpage
497 \@mainmattertrue
498 \pagenumbering{arabic}
499 }
500 \def\backmatter{
501 \clearpage
502 \@mainmatterfalse
503 \settocdepth{chapter}

```

```

504 \hypersetup{bookmarksopenlevel=0}
505 }

(End definition for \frontmatter, \mainmatter, and \backmatter. These functions are doc-
umented on page 13.)

Chinese title page.

506 <*class-zh>
507 \def\ITEC@zhtitlepage{
508 \begin{center}
509 \ifthenelse{\equal{\ITEC@reportno}{}}{
510 \null
511 }{
512 \begin{flushright}
513 {\Large \ttfamily No.\~\ITEC@reportno}
514 \end{flushright}
515 }
516 \vskip 2cm
517 {\LARGE \ITEC@zhtitletitle}\[0.5cm]
518 \rule{\linewidth}{0.5mm}\[0.55cm]
519 {\LARGE \bfseries \sffamily \HEI \ITEC@zhtitle}\[0.35cm]
520 \rule{\linewidth}{0.5mm}\[3.5cm]
521 \begin{minipage}[t]{0.8\textwidth}
522 \TurnOffTabFontSetting
523 \Large
524 \setlength{\extrarowheight}{5pt}
525 \begin{tabular}{r@{: }l}
526 \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhauthortitle}} &
527 \parbox[t][][t]{15em}{\ITEC@zhauthor}
528 \ifthenelse{\equal{\ITEC@zhsupervisor}{}}{}{
529 \\
530 \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhsupervisortitle}} &
531 \parbox[t][][t]{15em}{\ITEC@zhsupervisor}
532 }
533 \end{tabular}
534 \TurnOnTabFontSetting
535 \end{minipage}
536 \vfill
537 {\Large \zhdateformat}
538 \end{center}
539 }
540 </class-zh>

```

English title page.

```
541 \def\ITEC@entitlepage{
542   \begin{center}
543   \ifthenelse{\equal{\ITEC@reportno}{}}{
544     \null
545   }{
546     \begin{flushright}
547       {\Large \ttfamily No.\~\ITEC@reportno}
548     \end{flushright}
549   }
550   \vskip 1.5cm
551   {\Large \scshape \ITEC@entitletitle}\\[0.5cm]
552   \rule{\linewidth}{0.5mm}\\[0.55cm]
553   {\LARGE \bfseries \sffamily \ITEC@entitle}\\[0.35cm]
554   \rule{\linewidth}{0.5mm}\[3.5cm]
555   \begin{minipage}[t]{0.8\textwidth}
556     \TurnOffTabFontSetting
557     \Large
558     \setlength{\extrarowheight}{5pt}
559     \begin{tabular}{r@{~:~}l}
560       \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@enauthortitle}} &
561       \parbox[t][][t]{15em}{\ITEC@enauthor}
562       \ifthenelse{\equal{\ITEC@ensupervisor}{}}{ }{
563         \\
564         \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@ensupervisortitle}} &
565         \parbox[t][][t]{15em}{\ITEC@ensupervisor}
566       }
567     \end{tabular}
568     \TurnOnTabFontSetting
569     \end{minipage}
570     \vfill
571     {\Large \enddateformat}
572   \end{center}
573 }
```

**\maketitle** Commands to generate title page.

```
\makecover 574 \def\maketitle{
575   \begingroup
576   \hypersetup{allcolors=black}
577   \let\ITEC@oldthepage\thepage
578   \langle class-zh \rangle \def\thepage{封面}
```

```

579 <class-en>\def\thepage{Titlepage}
580 \begin{titlepage}
581 <*class-zh>
582 \thispagestyle{empty}
583 \ITEC@zhtitlepage
584 \clearpage
585 </class-zh>
586 \thispagestyle{empty}
587 \ITEC@entitlepage
588 \end{titlepage}
589 \let\thepage\ITEC@oldthepage
590 \setcounter{page}{1}
591 \endgroup
592 }
593 \let\makecover\maketitle
    (End definition for \maketitle and \makecover. These functions are documented on page 14.)
    Chinese abstract page.
594 <*class-zh>
595 \def\ITEC@zhabstractpage{
596 \chapter*{\ITEC@zhabstractname}
597 \ITEC@zhabstract \par
598 \vskip 1.2ex
599 \noindent\heif{\ITEC@zhkeywordstitle}\hspace{.8em} \ITEC@zhkeywords
600 }
601 </class-zh>
    English abstract page.
602 \def\ITEC@enabstractpage{
603 \chapter*{\ITEC@enabstractname}
604 \ITEC@enabstract \par
605 \vskip 1.2ex
606 \noindent\textbf{\ITEC@enkeywordstitle}\hspace{.8em} \ITEC@enkey-
    words
607 }

```

**\makeabstract** A command to generate abstract page.

```

608 \def\makeabstract{
609 \phantomsection
610 <*class-zh>
611 \addcontentsline{toc}{chapter}{\ITEC@zhabstractnamenospace}
612 \markboth{\ITEC@zhabstractnamenospace}{}
613 \ITEC@zhabstractpage

```

```

614 \clearpage
615 </class-zh>
616 <*class-en>
617 \addcontentsline{toc}{chapter}{\ITEC@enabstractname}
618 \markboth{\ITEC@enabstractname}{}
619 </class-en>
620 \ITEC@enabstractpage
621 \clearpage
622 }

```

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

**\tableofcontents** A command to generate table of contents.

```

623 \let\ITEC@tableofcontents\tableofcontents
624 \def\tableofcontents{
625 <*class-zh>
626 \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
627 \markboth{\contentsnamenospace}{}
628 </class-zh>
629 <*class-en>
630 \pdfbookmark{\contentsname}{\contentsname}
631 \markboth{\contentsname}{}
632 </class-en>
633 \let\ITEC@oldmarkboth\markboth
634 \renewcommand\markboth[2]{}
635 \ITEC@tableofcontents
636 \let\markboth\ITEC@oldmarkboth
637 \clearpage
638 }

```

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

**ack** A command to generate acknowledge page.

```

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

```

```

649 </class-en>
650 \chapter*{\ITEC@ackname}
651 \begingroup
652 \normalsize
653 }{
654 \endgroup
655 }

```

**publications** A command to generate publications page.

```

656 \newenvironment{publications}{
657 \clearpage
658 \ifITEC@inappendix
659 \chapter{\ITEC@publicationtitle}
660 \markboth{\appendixname\,\thechapter\hspace{1em}\ITEC@publicationtitle}{}
661 \else
662 \phantomsection
663 \addcontentsline{toc}{chapter}{\ITEC@publicationtitle}
664 \chapter*{\ITEC@publicationtitle}
665 \markboth{\ITEC@publicationtitle}{}
666 \fi
667 \begin{enumerate}[labelindent=0pt,label={[\arabic*]}]
668 }{
669 \end{enumerate}
670 }

```

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

```

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

```



```

684 <class-zh>\ITEC@bibliography{#1}
685 <class-en>\ITEC@bibliography{IEEEabrv,#1}
686 }

```

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

**appendix** The appendix environment.

```

687 \newif\ifITEC@inappendix
688 \ITEC@inappendixfalse
689 \newif\ifITEC@appendix@resetmainmatter
690 \ITEC@appendix@resetmainmatterfalse
691 \renewenvironment{appendix}{
692   \if@mainmatter
693     \ITEC@appendix@resetmainmatterfalse
694   \else
695     \ITEC@appendix@resetmainmattertrue
696     \@mainmattertrue
697   \fi
698   \appendixtitletocon
699   \appendices
700   \titleformat{\chapter}
701   {
702     \bfseries
703     <class-zh>\HEI
704     \centering
705     \changeont{size=18pt}
706   }
707   {\appendixname\,\thechapter}
708   {1em}
709   {}
710   \ITEC@inappendixtrue
711 }{
712   \endappendices
713   \ITEC@inappendixfalse
714   \ifITEC@appendix@resetmainmatter
715     \ITEC@appendix@resetmainmatterfalse
716     \@mainmatterfalse
717   \else\fi
718 }

```

**\listoffigures** A command to generate list of figures.

```

719 \let\ITEC@listoffigures\listoffigures

```

```

720 \def\listoffigures{
721   \clearpage
722   \ifITEC@inappendix
723     \addtocounter{chapter}{1}
724     \def\listfigurename{\appendixname\,\thechapter\hspace{1em}\ITEC@listfigurename}
725   \else
726     \def\listfigurename{\ITEC@listfigurename}
727   \fi
728   \phantomsection
729   \ifITEC@inappendix
730     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@list-
figurename}
731   \else
732     \addcontentsline{toc}{chapter}{\listfigurename}
733   \fi
734   \markboth{\listfigurename}{}
735   \let\ITEC@oldmarkboth\markboth
736   \renewcommand\markboth[2]{}
737   \ITEC@listoffigures
738   \let\markboth\ITEC@oldmarkboth
739   \def\listfigurename{\ITEC@listfigurename}
740 }

```

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

**\listoftables** A command to generate list of tables.

```

741 \let\ITEC@listoftables\listoftables
742 \def\listoftables{
743   \clearpage
744   \ifITEC@inappendix
745     \addtocounter{chapter}{1}
746     \def\listtablename{\appendixname\,\thechapter\hspace{1em}\ITEC@listtablename}
747   \else
748     \def\listtablename{\ITEC@listtablename}
749   \fi
750   \phantomsection
751   \ifITEC@inappendix
752     \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@list-
tablename}
753   \else
754     \addcontentsline{toc}{chapter}{\listtablename}
755   \fi

```

```

756 \markboth{\listtablename}{}
757 \let\ITEC@oldmarkboth\markboth
758 \renewcommand\markboth[2]{}
759 \ITEC@listoftables
760 \let\markboth\ITEC@oldmarkboth
761 \def\listtablename{\ITEC@listtablename}
762 }

```

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

## 10 Other Command

**\email**

```

763 \def\email#1{
764 \href{mailto:#1}{\texttt{#1}}
765 }

```

*(End definition for \email. This function is documented on page 15.)*

```

766 \end{class}

```

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