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[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 TEX 工程根目录下即可。

3 基本用法

本文档只能使用 XELATEX 或 LUALATEX（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。

\reportno `\reportno{⟨Report Number⟩}`

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。

\zhtitle `\zhtitle{⟨Chinese title⟩}`
\entitle `\entitle{⟨English title⟩}`
\title `\title{⟨Chinese title⟩}{⟨English title⟩}`

这一组命令用于设定文档的中英文标题。

\zhauthor `\zhauthor{⟨Chinese author⟩}`
\enauthor `\enauthor{⟨English author⟩}`
\author `\author{⟨Chinese author⟩}{⟨English author⟩}`

这一组命令用于设定文档的中英文作者名。

\date `\date{⟨Year⟩}{⟨Month⟩}{⟨Day⟩}`

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。

\zhsupervisor `\zhsupervisor{⟨Chinese supervisor⟩}`
\ensupervisor `\ensupervisor{⟨English supervisor⟩}`
\supervisor `\supervisor{⟨Chinese supervisor⟩}{⟨English supervisor⟩}`

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。

\zhabstract `\zhabstract{⟨Chinese abstract⟩}`
\enabstract `\enabstract{⟨English abstract⟩}`
\abstract `\abstract{⟨Chinese abstract⟩}{⟨English abstract⟩}`

这一组命令用于设定文档的中英文摘要。

\zhkeywords `\zhkeywords{⟨Chinese keywords⟩}`
\enkeywords `\enkeywords{⟨English keywords⟩}`
\keywords `\keywords{⟨Chinese keywords⟩}{⟨English keywords⟩}`

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。

\frontmatter
\mainmatter
\backmatter

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。`\frontmatter` 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。`\mainmatter` 表示论文正文的开始。`\backmatter` 表示论文正文的结束。

\maketitle
\makecover

`\maketitle` 和`\makecover` 作用相同，用于生成封面和版权页面。

\makeabstract

用于生成中英文摘要页面。

\tableofcontents

用于生成目录。

\zhdateformat
\endateformat

用于打印中英文日期。

ack

`ack` 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
\listoftables

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：

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

\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。

```
\documentclass{itecreport-zh}

\reportno{12345} % 可选
\title{中文标题}{英文标题}
\author{作者名}{作者名拼音}
\supervisor{指导老师中文}{指导老师英文} % 可选
\date{2013}{6}{1}

\zhabstract{中文摘要}
\zhkeywords{中文关键字}
\enabstract{英文摘要}
\enkeywords{英文关键字}

\begin{document}

\frontmatter
\maketitle
\makeabstract
\tableofcontents
\listoffigures
\listoftables
\mainmatter

%% 正文

\backmatter

\begin{ack}
%% 致谢
\end{ack}
\bibliography{参考文献.bib文件}

\appendix

\begin{publications}
%% 发表过的论文列表
```

```
\end{publications}

%% 附录剩余部分

\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` {\HEI ⟨*content*⟩}
\hei{⟨*content*⟩}
切换字体为黑体（AdobeHeitiStd-Regular）。

`\KAI` `\kai` {\KAI ⟨*content*⟩}
\kai{⟨*content*⟩}
切换字体为楷体（AdobeKaitiStd-Regular）。

`\FANGSONG` `\fangsong` {\FANGSONG ⟨*content*⟩}
\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 XeLaTeX）和宏包 luatex-ja（对于 LuaLaTeX）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 XeLaTeX *or* LuaLaTeX *(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.

`\reportno` `\reportno{⟨Report Number⟩}`

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

`\title` `\title{⟨title⟩}`

Set title.

`\author` `\author{⟨author⟩}`

Set author.

`\date` `\date{⟨Year⟩}{⟨Month⟩}{⟨Day⟩}`

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

`\supervisor` `\supervisor{⟨supervisor⟩}`

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

`\abstract` `\abstract{⟨abstract⟩}`

Put your abstract.

`\keywords` `\keywords{⟨keywords⟩}`

Put your keywords.

3.2 Other commands

`\frontmatter` `\mainmatter` `\backmatter`

Used to determine the different part of document. You can see the example at section 4.

`\maketitle` `\makecover` `\maketitle` and `\makecover` are the same. Used to create the title page.

`\makeabstract` Used to create abstract page.

`\tableofcontents` Used to create table of contents.

`\dateformat` Used to print the date.

`ack` The `ack` environment is used to create acknowledge page.

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

`\bibliography` `\bibliography{`⟨*.bib file*⟩`}`

Used to create bibliography page.

`appendix` The `appendix` environment is for appendix of course. Used like this:

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

`\appendix` Or simple use `\appendix` to indicate that the rest of document are all in appendix, like this:

```
\appendix
<content>
```

`\listoffigures` `\listoftables` Create the index for all the figures and tables separately.

`publications` The `publications` environment is where you list all of your published thesises. 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:

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

\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
```

```
\listoffigures
\listoftables
\mainmatter

%% main body

\backmatter

\begin{ack}
%% acknowledge
\end{ack}
\bibliography{.bib file}

\appendix

\begin{publications}
%% your publications
\end{publications}

%% rest of appendix

\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 anb 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

```
⟨*class⟩
\RequirePackage{ifthen}
```

1 Process Options

Process options and load class `book`.

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

2 Check Engine

Check engine, only XeLaTeX and LuaLaTeX are supported.

```
\RequirePackage{iftex}
\ifXeTeX\else
  \ifLuaTeX\else
    \begingroup
      \errorcontextlines=-1\relax
      \newlinechar=10\relax
      \errmessage{^^J
      ******************************************************^^J
      * XeTeX or LuaTeX is required to compile this document.^^J
      * Sorry!^^J
      ******************************************************^^J
      }%
    \endgroup
  \fi
\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.

```
⟨*class-en⟩
\RequirePackage{fontspec}
\setmainfont[
  Ligatures={Common,TeX},
  Extension=.otf,
  UprightFont=*-regular,
  BoldFont=*-bold,
  ItalicFont=*-italic,
  BoldItalicFont=*-bolditalic]{texgyretermes}
\setsansfont[Ligatures={Common,TeX}]{Droid Sans}
\setmonofont{CMU Typewriter Text}
\defaultfontfeatures{Mapping=tex-text}
⟨/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 XeLaTeX) or `luatex-ja` package (for LuaLaTeX, recommend) to handle Chinese font. We will use font: AdobeSongStd-Light, AdobeKaitiStd-Regular, AdobeHeitiStd-Regular and AdobeFangsongStd-Regular.

```
⟨*class-zh⟩
\ifXeTeX  % XeTeX 下使用 fontspec + xeCJK 处理字体
  % 英文字体
  \RequirePackage{fontspec}
  \RequirePackage{xunicode}
  \setmainfont[
    Ligatures={Common,TeX},
    Extension=.otf,
    UprightFont=*-regular,
    BoldFont=*-bold,
    ItalicFont=*-italic,
    BoldItalicFont=*-bolditalic]{texgyretermes}
  \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
  \setmonofont{CMU Typewriter Text}
  \defaultfontfeatures{Mapping=tex-text}
  % 中文字体
  \RequirePackage[CJKmath]{xeCJK}
  \setCJKmainfont[
   BoldFont={Adobe Heiti Std},
   ItalicFont={Adobe Kaiti Std}]{Adobe Song Std}
  \setCJKsansfont{Adobe Kaiti Std}
```

```
    \setCJKmonofont{Adobe Fangsong Std}
    \xeCJKsetup{PunctStyle=kaiming}
```

\HEI

```
    \newCJKfontfamily\HEI{Adobe Heiti Std}
```

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

\KAI

```
    \newCJKfontfamily\KAI{Adobe Kaiti Std}
```

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

\FANGSONG

```
    \newCJKfontfamily\FANGSONG{Adobe Fangsong Std}
```

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

\hei

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

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

\kai

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

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

\fangsong

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

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

```
  \else\fi
  \ifLuaTeX  % LuaTeX 下使用 luatex-ja 处理字体 [推荐]
    \RequirePackage{luatexja-fontspec}
    % 英文字体
    \setmainfont[Ligatures={Common,TeX}]{Tex Gyre Termes}
    \setsansfont[Ligatures={Common,TeX}]{Droid Sans}
    \setmonofont{CMU Typewriter Text}
    \defaultfontfeatures{Mapping=tex-text,Scale=MatchLowercase}
    % 中文字体
    \setmainjfont[
     BoldFont={AdobeHeitiStd-Regular},
     ItalicFont={AdobeKaitiStd-Regular}]{AdobeSongStd-Light}
    \setsansjfont{AdobeKaitiStd-Regular}
    \defaultjfontfeatures{JFM=kaiming}
```

\HEI

```
\newjfontfamily\HEI{AdobeHeitiStd-Regular}
```

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

\KAI

```
\newjfontfamily\KAI{AdobeKaitiStd-Regular}
```

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

\FANGSONG

```
\newjfontfamily\FANGSONG{AdobeFangsongStd-Regular}
```

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

\hei

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

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

\kai

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

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

\fangsong

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

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

```
\else\fi
```

Chinese number for itecreport-zh using zhnumber.

```
\RequirePackage{zhnumber}
\def\CJKnumber#1{\zhnumber{#1}} % 兼容 CJKnumb
```

⟨/class-zh⟩

4 Basic Format

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

```
\RequirePackage{interfaces-LaTeX}
\changefont{linespread=1.2}
```

Use geometry package to handle paper page.

```
\RequirePackage{geometry}
\geometry{
  a4paper,
  top=1.2in,
  bottom=1.2in,
  left=1in,
  right=1in,
  includefoot
}
\pdfpagewidth=\paperwidth
\pdfpageheight=\paperheight
```

Indent of paragraph and skip between paragraphs.

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

Packages to handle color.

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

Use hyperref package to generate cross-reference link.

```
\RequirePackage[unicode]{hyperref}
\definecolor{ITEC@hyperreflinkred}{RGB}{128,23,31}
\hypersetup{
  bookmarksnumbered=true,
  bookmarksopen=true,
  bookmarksopenlevel=1,
  breaklinks=true,
  colorlinks=true,
  allcolors=ITEC@hyperreflinkred,
  linktoc=page,
  plainpages=false,
  pdfpagelabels=true,
  pdfstartview={XYZ null null 1},
⟨class-zh⟩pdfinfo={Template.Info={itecreport-zh.cls 2013/06/01, Copyright (C) 2013 by X
creport}}
⟨class-en⟩pdfinfo={Template.Info={itecreport-en.cls 2013/06/01, Copyright (C) 2013 by X
creport}}
}
```

5 Load Packages

Load packages for math.

```
\RequirePackage{amsmath,amssymb,amsfonts}
\RequirePackage[amsmath,amsthm,thmmarks,hyperref,thref]{ntheorem}
\RequirePackage{fancynum}
\setfnumgsym{\,}
\RequirePackage[lined,boxed,linesnumbered,ruled,vlined]{algorithm2e}
```

Load packages for picture.

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

Load packages for table.

```
\RequirePackage{array}
\RequirePackage{multirow,tabularx,ltxtable}
```

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

```
\RequirePackage{listings}
```

Load package for bibliography cite style.

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

Other packages for style setting.

```
\RequirePackage{titlesec}
\RequirePackage{titletoc}
\RequirePackage{tocvsec2}
\RequirePackage[inline]{enumitem}
\RequirePackage{fancyhdr}
\RequirePackage{afterpage}
\RequirePackage{datenumber}
\RequirePackage{etoolbox}
\RequirePackage{appendix}
\RequirePackage[titles]{tocloft}
\RequirePackage{xstring}
\RequirePackage{perpage}
```

6 Localization

Chinese localization. [2]

```
⟨*class-zh⟩
\def\indexname{索引}
\def\figurename{图}
\def\tablename{表}
\def\listingscaption{代码}
\def\bibname{参考文献}
\def\contentsname{目\hspace{1em}录}
\def\contentsnamenospace{目录}
\def\appendixname{附录}
\def\ITEC@listfigurename{插图索引}
\def\ITEC@listtablename{表格索引}
\def\equationautorefname{公式}
\def\footnoteautorefname{脚注}
\def\itemautorefname~#1\null{第~#1~项\null}
\def\figureautorefname{图}
\def\tableautorefname{表}
\def\appendixautorefname{附录}
\expandafter\def\csname\appendixname autorefname\endcsname{\appendix-
name}
\def\chapterautorefname~#1\null{第\zhnumber{#1}章\null}
\def\sectionautorefname~#1\null{#1~小节\null}
\def\subsectionautorefname~#1\null{#1~小节\null}
\def\subsubsectionautorefname~#1\null{#1~小节\null}
\def\FancyVerbLineautorefname~#1\null{第~#1~行\null}
\def\pageautorefname~#1\null{第~#1~页\null}
\def\lstlistingautorefname{代码}
\def\definitionautorefname{定义}
\def\propositionautorefname{命题}
\def\lemmaautorefname{引理}
\def\theoremautorefname{定理}
\def\axiomautorefname{公理}
\def\corollaryautorefname{推论}
\def\exerciseautorefname{练习}
\def\exampleautorefname{例}
\def\proofautorefname{证明}
```

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

```
\SetAlgorithmName{算法}{算法}{算法索引}
\SetAlgoProcName{过程}{过程}
\SetAlgoFuncName{函数}{函数}
\def\AlgoLineautorefname~#1\null{第~#1~行\null}
⟨/class-zh⟩
```

English localization.

```
⟨*class-en⟩
\def\ITEC@listfigurename{List of Figures}
\def\ITEC@listtablename{List of Tables}
\def\equationautorefname{Equation}
\def\footnoteautorefname{Footnote}
\def\itemautorefname{Item}
\def\figureautorefname{Figure}
\def\tableautorefname{Table}
\def\appendixautorefname{Appendix}
\expandafter\def\csname\appendixname autorefname\endcsname{\appendix-
name}
\def\chapterautorefname{Chapter}
\def\sectionautorefname{Section}
\def\subsectionautorefname{Subsection}
\def\subsubsectionautorefname{Sub-subsection}
\def\FancyVerbLineautorefname{Line}
\def\pageautorefname{Page}
\def\lstlistingautorefname{Code Fragment}
\def\definitionautorefname{Definition}
\def\propositionautorefname{Proposition}
\def\lemmaautorefname{Lemma}
\def\theoremautorefname{Theorem}
\def\axiomautorefname{Axiom}
\def\corollaryautorefname{Corollary}
\def\exerciseautorefname{Exercise}
\def\exampleautorefname{Example}
\def\proofautorefname{Proof}
\SetAlgorithmName{Algorithm}{Algorithm}{List of Algorithms}
\SetAlgoProcName{Procedure}{Procedure}
\SetAlgoFuncName{Function}{Function}
\def\AlgoLineautorefname{Line}
⟨/class-en⟩
```

Internal variables.

```
⟨*class-en | class-zh⟩
```

```
\long\def\ITEC@entitletitle{Huazhong University of Science and Technology\\Department of Electronics and Information Engineering\\Internet Technology and Engineering R\char38D Center\\[0.8cm]Technical Report}
\def\ITEC@enauthortitle{Author}
\def\ITEC@ensupervisortitle{Supervisor}
\def\ITEC@enabstractname{Abstract}
\def\ITEC@enkeywordstitle{Key words:}
⟨/class-en | class-zh⟩
⟨*class-en⟩
\def\ITEC@ackname{Acknowledge}
\def\ITEC@publicationtitle{Publication}
⟨/class-en⟩
⟨*class-zh⟩
\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}
\def\ITEC@zhauthortitle{作者}
\def\ITEC@zhsupervisortitle{指导教师}
\def\ITEC@zhabstractname{摘\hspace{1em}要}
\def\ITEC@zhabstractnamenospace{摘要}
\def\ITEC@zhkeywordstitle{关键词：}
\def\ITEC@ackname{致\hspace{1em}谢}
\def\ITEC@acknamenospace{致谢}
\def\ITEC@publicationtitle{在实验室期间发表的学术论文}
⟨/class-zh⟩
```

Set `\listfigurename` and `\listtablename`.

```
\def\listfigurename{\ITEC@listfigurename}
\def\listtablename{\ITEC@listtablename}
```

7 Style Setting

7.1 Equation Style

Allow long equation breaking between lines or pages.

```
\allowdisplaybreaks[4]
```

Set skip between equation and context.

```
\abovedisplayskip=10bp plus 2bp minus 2bp
\abovedisplayshortskip=10bp plus 2bp minus 2bp
\belowdisplayskip=\abovedisplayskip
\belowdisplayshortskip=\abovedisplayshortskip
```

Set equation numbering style.

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

7.2 Theorem Style

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

```
\theoremnumbering{arabic}
⟨class-zh⟩\theoremseparator{: }
⟨class-en⟩\theoremseparator{:}
\theorempreskip{1.2ex plus 0ex minus 1ex}
\theorempostskip{1.2ex plus 0ex minus 1ex}
\theoremheaderfont{\normalfont\bfseries\HEI}
\theoremsymbol{}

\theoremstyle{definition}
\theorembodyfont{\normalfont}
⟨class-zh⟩\newtheorem{definition}{定义}[chapter]
⟨class-en⟩\newtheorem{definition}{Definition}[chapter]

\theoremstyle{plain}
\theorembodyfont{\itshape}
⟨class-zh⟩\newtheorem{proposition}{命题}[chapter]
⟨class-en⟩\newtheorem{proposition}{Proposition}[chapter]
⟨class-zh⟩\newtheorem{lemma}{引理}[chapter]
⟨class-en⟩\newtheorem{lemma}{Lemma}[chapter]
⟨class-zh⟩\newtheorem{theorem}{定理}[chapter]
⟨class-en⟩\newtheorem{theorem}{Theorem}[chapter]
⟨class-zh⟩\newtheorem{axiom}{公理}[chapter]
⟨class-en⟩\newtheorem{axiom}{Axiom}[chapter]
⟨class-zh⟩\newtheorem{corollary}{推论}[chapter]
⟨class-en⟩\newtheorem{corollary}{Corollary}[chapter]
⟨class-zh⟩\newtheorem{exercise}{练习}[chapter]
⟨class-en⟩\newtheorem{exercise}{Exercise}[chapter]
⟨class-zh⟩\newtheorem{example}{例}[chapter]
⟨class-en⟩\newtheorem{example}{Example}[chapter]

⟨class-zh⟩\def\proofname{\hei{证明}}
⟨class-en⟩\def\proofname{\textbf{Proof}}
```

7.3 Floating Objects Style

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

```
\setlength{\intextsep}{0.7\baselineskip plus 0.1\baselineskip minus 0.1\base-
lineskip}
```

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

```
\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.

```
\renewcommand{\textfraction}{0.15}
\renewcommand{\topfraction}{0.85}
\renewcommand{\bottomfraction}{0.65}
\renewcommand{\floatpagefraction}{0.60}
```

7.4 Table Style

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

```
\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]

```
\def\@cline#1-#2\@nil{%
  \omit
  \@multicnt#1%
  \advance\@multispan\m@ne
  \ifnum\@multicnt=\@ne\@firstofone{&\omit}\fi
  \@multicnt#2%
  \advance\@multicnt-#1%
  \advance\@multispan\@ne
  \leaders\hrule\@height\arrayrulewidth\hfill
  \cr
  \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.

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

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

```
\ITEC@useoldtabularfalse
```

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

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

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

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

```
\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.

```
\AtBeginEnvironment{tabular}{
  \ifITEC@useoldtabular\else
    \changefont{size=11pt,linespread=1.4}
  \fi
}
\AtBeginEnvironment{tabularx}{
  \ifITEC@useoldtabular\else
    \changefont{size=11pt,linespread=1.4}
  \fi
}
\AtBeginEnvironment{longtable}{
  \ifITEC@useoldtabular\else
    \changefont{size=11pt,linespread=1.4}
  \fi
}
```

7.5 Caption Style

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

```
\DeclareCaptionFont{ITEC@captionfont}{\changefont{size=11pt}}
\DeclareCaptionLabelFormat{ITEC@caplabel}{#1~#2}
\captionsetup{
  font=ITEC@captionfont,
  labelformat=ITEC@caplabel,
  format=hang,
  labelsep=quad,
  skip=12pt
}
```

Set figure and table numbering style.

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

7.6 Code Highlight Style

```
\definecolor{ITEC@lstgreen}{rgb}{0,0.6,0}
\definecolor{ITEC@lstmauve}{rgb}{0.58,0,0.82}

\lstset{
  basicstyle=\footnotesize\ttfamily\changefont{linespread=1}
⟨class-zh⟩\FANGSONG
  ,
  keywordstyle=\color{blue}\bfseries,
  commentstyle=\color{ITEC@lstgreen}\itshape
⟨class-zh⟩\KAI
  ,
  stringstyle=\color{ITEC@lstmauve},
  showspaces=false,
  showstringspaces=false,
  showtabs=false,
  numbers=left,
  numberstyle=\tiny\color{black},
  frame=lines,
  rulecolor=\color{black},
  breaklines=true
}
```

7.7 Section Title Style

Set the numbering depth for section.

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

Chapter tilte format and spacing setting.

```
\titleformat{\chapter}
  {
    \bfseries
⟨class-zh⟩\HEI
    \centering
    \changefont{size=18pt}
  }
⟨class-zh⟩{\zhnumber{\thechapter}}
```

```
⟨class-en⟩{Chapter~\thechapter}
  {1em}
  {}
\titlespacing*{\chapter}{0pt}{0pt}{20pt}
```

Section tilte format and spacing setting.

```
\titleformat*{\section}{\bfseries
⟨class-zh⟩\HEI
\changefont{size=16pt}}
\titlespacing*{\section}{0pt}{18pt}{6pt}
```

Subsection tilte format and spacing setting.

```
\titleformat*{\subsection}{\bfseries
⟨class-zh⟩\HEI
\changefont{size=14pt}}
\titlespacing*{\subsection}{0pt}{12pt}{6pt}
```

Subsubsection tilte format and spacing setting.

```
\titleformat*{\subsubsection}{\bfseries
⟨class-zh⟩\HEI
\changefont{size=13pt}}
\titlespacing*{\subsubsection}{0pt}{12pt}{6pt}
```

7.8 TOC Style

TOC depth.

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

TOC right margin.

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

Remove vertical space between two continues chapter entries. [4]

```
\newskip\ITEC@oldcftbeforechapskip
\ITEC@oldcftbeforechapskip=\cftbeforechapskip
\newskip\ITEC@oldcftbeforesecskip
\ITEC@oldcftbeforesecskip=\cftbeforesecskip
\let\ITEC@oldl@chapter\l@chapter
\let\ITEC@oldl@section\l@section
\let\ITEC@oldl@subsection\l@subsection
\def\l@chapter#1#2{\ITEC@oldl@chapter{#1}{#2}\cftbeforechapskip=3pt}
\def\l@section#1#2{\ITEC@oldl@section{#1}{#2}\cftbeforechapskip=\ITEC@old-
cftbeforechapskip\cftbeforesecskip=3pt}
```

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

```
\def\l@subsection#1#2{\ITEC@oldl@subsection{#1}{#2}\cftbeforesecskip=\ITEC@old-
cftbeforesecskip}
```

Set LOF LOT style. [5]

```
\renewcommand*\cftfigpresnum{\figurename~}
\newlength{\ITEC@cftfignumwidth@tmp}
\settowidth{\ITEC@cftfignumwidth@tmp}{\cftfigpresnum}
\addtolength{\cftfignumwidth}{\ITEC@cftfignumwidth@tmp}
\renewcommand{\cftfigaftersnumb}{\quad~}
\renewcommand*\cfttabpresnum{\tablename~}
\newlength{\ITEC@cfttabnumwidth@tmp}
\settowidth{\ITEC@cfttabnumwidth@tmp}{\cfttabpresnum}
\addtolength{\cfttabnumwidth}{\ITEC@cfttabnumwidth@tmp}
\renewcommand{\cfttabaftersnumb}{\quad~}
```

7.9 Head & Foot Style

```
\let\ps@plain\ps@fancy
\pagestyle{fancy}
\fancyhf{}
\renewcommand{\headrulewidth}{0.4pt}
\fancyhead[L]{\textbf{\leftmark}}
\fancyhead[R]{\rightmark}
\fancyfoot[C]{\thepage}
\renewcommand{\chaptermark}[1]{
  \markboth{
    \ifITEC@inappendix
      \appendixname~\thechapter
    \else
⟨class-zh⟩ 第\zhnumber{\thechapter}章
⟨class-en⟩Chapter~\thechapter
    \fi
  \hspace{.8em}#1}{}
}
\renewcommand{\sectionmark}[1]{
  \StrLen{#1}[\ITEC@secmark@tmplen]
  \ifthenelse{\ITEC@secmark@tmplen<20}
  {\markright{\thesection\hspace{.8em}\emph{#1}}}
  {\markright{}}
}
```

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

7.10 List Environment Style

```
\setlist{noitemsep,partopsep=0pt,topsep=.8ex}
\setlist[1]{labelindent=\parindent}
\setlist[enumerate,1]{label=\arabic*.,ref=\arabic*}
\setlist[enumerate,2]{label*=\arabic*,ref=\theenumi.\arabic*}
\setlist[enumerate,3]{label=\emph{\alph*}),ref=\theenumii\emph{\alph*}}
\setlist[description]{font=\bfseries
⟨class-zh⟩\HEI
}
%
% \subsection{Footnote Style}
%    \begin{macrocode}
\MakePerPage{footnote}
```

8 Variables Setting

A command to set report number.

\reportno

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

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

\zhtitle \entitle \title

Commands to set the title.

```
⟨*class-zh⟩
\def\zhtitle#1{\gdef\ITEC@zhtitle{#1}\hypersetup{pdftitle={#1}}}
\def\entitle#1{\gdef\ITEC@entitle{#1}}
\def\title#1#2{\zhtitle{#1}\entitle{#2}}
\title{}{}
⟨/class-zh⟩
⟨*class-en⟩
\def\title#1{\gdef\ITEC@entitle{#1}\hypersetup{pdftitle={#1}}}
\title{}
⟨/class-en⟩
```

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

\zhauthor \enauthor \author

Commands to set the author.

```
⟨*class-zh⟩
\def\zhauthor#1{\gdef\ITEC@zhauthor{#1}\hypersetup{pdfauthor={#1}}}
\def\enauthor#1{\gdef\ITEC@enauthor{#1}}
```

```
\def\author#1#2{\zhauthor{#1}\enauthor{#2}}
\author{}{}
⟨/class-zh⟩
⟨*class-en⟩
\def\author#1{\gdef\ITEC@enauthor{#1}\hypersetup{pdfauthor={#1}}}
\author{}
⟨/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` `\endateformat` `\dateformat`

```
\def\date#1#2#3{
  \setdate{#1}{#2}{#3}
}
\setdatetoday
⟨*class-zh⟩
\def\zhdateformat{~\thedateyear~年~\thedatemonth~月~\thedateday~日}
\def\endateformat{\datedate}
⟨/class-zh⟩
⟨*class-en⟩
\def\endateformat{\datedate}
\let\dateformat\endateformat
⟨/class-en⟩
```

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

`\zhsupervisor` `\ensupervisor` `\supervisor` Commands to set the supervisor.

```
⟨*class-zh⟩
\def\zhsupervisor#1{\gdef\ITEC@zhsupervisor{#1}}
\def\ensupervisor#1{\gdef\ITEC@ensupervisor{#1}}
\def\supervisor#1#2{\zhsupervisor{#1}\ensupervisor{#2}}
\supervisor{}{}
⟨/class-zh⟩
⟨*class-en⟩
\def\supervisor#1{\gdef\ITEC@ensupervisor{#1}}
\supervisor{}
⟨/class-en⟩
```

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

`\zhabstract` `\enabstract` `\abstract` Commands to set the abstract.

```
⟨*class-zh⟩
\long\def\zhabstract#1{\long\gdef\ITEC@zhabstract{#1}}
```

```
\long\def\enabstract#1{\long\gdef\ITEC@enabstract{#1}}
\long\def\abstract#1#2{\zhabstract{#1}\enabstract{#2}}
\abstract{}{}
⟨/class-zh⟩
⟨*class-en⟩
\long\def\abstract#1{\long\gdef\ITEC@enabstract{#1}}
\abstract{}
⟨/class-en⟩
```

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

`\zhkeywords` `\enkeywords` `\keywords` Commands to set the keywords.

```
⟨*class-zh⟩
\def\zhkeywords#1{\gdef\ITEC@zhkeywords{#1}\hypersetup{pdfkeywords={#1}}}
\def\enkeywords#1{\gdef\ITEC@enkeywords{#1}}
\def\keywords#1#2{\zhkeywords{#1}\enkeywords{#2}}
\keywords{}{}
⟨/class-zh⟩
⟨*class-en⟩
\def\keywords#1{\gdef\ITEC@enkeywords{#1}\hypersetup{pdfkeywords={#1}}}
\keywords{}
⟨/class-en⟩
```

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

9 Specical Page

`\frontmatter` `\mainmatter` `\backmatter`

```
\def\frontmatter{
  \clearpage
  \@mainmatterfalse
  \pagenumbering{Roman}
}
\def\mainmatter{
  \clearpage
  \@mainmattertrue
  \pagenumbering{arabic}
}
\def\backmatter{
  \clearpage
  \@mainmatterfalse
```

```
  \settocdepth{chapter}
  \hypersetup{bookmarksopenlevel=0}
}
```

(*End definition for* `\frontmatter`, `\mainmatter`, *and* `\backmatter`. *These functions are documented on page 13.*)

Chinese title page.

```
⟨*class-zh⟩
\def\ITEC@zhtitlepage{
  \begin{center}
  \ifthenelse{\equal{\ITEC@reportno}{}}{
    \null
  }{
    \begin{flushright}
    {\Large \ttfamily No.~\ITEC@reportno}
    \end{flushright}
  }
  \vskip 2cm
  {\LARGE \ITEC@zhtitletitle}\\[0.5cm]
  \rule{\linewidth}{0.5mm}\\[0.55cm]
  {\LARGE \bfseries \sffamily \HEI \ITEC@zhtitle}\\[0.35cm]
  \rule{\linewidth}{0.5mm}\\[3.5cm]
  \begin{minipage}[t]{0.8\textwidth}
  \TurnOffTabFontSetting
  \Large
  \setlength{\extrarowheight}{5pt}
  \begin{tabular}{r@{: }l}
    \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhauthortitle}} &
    \parbox[t][][t]{15em}{\ITEC@zhauthor}
    \ifthenelse{\equal{\ITEC@zhsupervisor}{}}{}{
    \\
    \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@zhsupervisortitle}} &
    \parbox[t][][t]{15em}{\ITEC@zhsupervisor}
    }
  \end{tabular}
  \TurnOnTabFontSetting
  \end{minipage}
  \vfill
  {\Large \zhdateformat}
  \end{center}
}
⟨/class-zh⟩
```

English title page.

```
\def\ITEC@entitlepage{
  \begin{center}
  \ifthenelse{\equal{\ITEC@reportno}{}}{
    \null
  }{
    \begin{flushright}
    {\Large \ttfamily No.~\ITEC@reportno}
    \end{flushright}
  }
  \vskip 1.5cm
  {\Large \scshape \ITEC@entitletitle}\\[0.5cm]
  \rule{\linewidth}{0.5mm}\\[0.55cm]
  {\LARGE \bfseries \sffamily \ITEC@entitle}\\[0.35cm]
  \rule{\linewidth}{0.5mm}\\[3.5cm]
  \begin{minipage}[t]{0.8\textwidth}
  \TurnOffTabFontSetting
  \Large
  \setlength{\extrarowheight}{5pt}
  \begin{tabular}{r@{~:~}l}
    \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@enauthortitle}} &
    \parbox[t][][t]{15em}{\ITEC@enauthor}
    \ifthenelse{\equal{\ITEC@ensupervisor}{}}{}{
    \\
    \parbox[t][][t]{6em}{\raggedleft \emph{\ITEC@ensupervisortitle}} &
    \parbox[t][][t]{15em}{\ITEC@ensupervisor}
    }
  \end{tabular}
  \TurnOnTabFontSetting
  \end{minipage}
  \vfill
  {\Large \endateformat}
  \end{center}
}
```

\maketitle
\makecover

Commands to generate title page.

```
\def\maketitle{
  \begingroup
  \hypersetup{allcolors=black}
  \let\ITEC@oldthepage\thepage
⟨class-zh⟩\def\thepage{封面}
```

```
⟨class-en⟩\def\thepage{Titlepage}
  \begin{titlepage}
⟨*class-zh⟩
    \thispagestyle{empty}
    \ITEC@zhtitlepage
    \clearpage
⟨/class-zh⟩
    \thispagestyle{empty}
    \ITEC@entitlepage
  \end{titlepage}
  \let\thepage\ITEC@oldthepage
  \setcounter{page}{1}
  \endgroup
}
\let\makecover\maketitle
```

(*End definition for* `\maketitle` *and* `\makecover`*. These functions are documented on page 14.*)

Chinese abstract page.

```
⟨*class-zh⟩
\def\ITEC@zhabstractpage{
  \chapter*{\ITEC@zhabstractname}
  \ITEC@zhabstract \par
  \vskip 1.2ex
  \noindent\hei{\ITEC@zhkeywordstitle}\hspace{.8em} \ITEC@zhkeywords
}
⟨/class-zh⟩
```

English abstract page.

```
\def\ITEC@enabstractpage{
  \chapter*{\ITEC@enabstractname}
  \ITEC@enabstract \par
  \vskip 1.2ex
  \noindent\textbf{\ITEC@enkeywordstitle}\hspace{.8em} \ITEC@enkey-
words
}
```

`\makeabstract` A command to generate abstract page.

```
\def\makeabstract{
  \phantomsection
⟨*class-zh⟩
  \addcontentsline{toc}{chapter}{\ITEC@zhabstractnamenospace}
  \markboth{\ITEC@zhabstractnamenospace}{}
  \ITEC@zhabstractpage
```

```
    \clearpage
⟨/class-zh⟩
⟨*class-en⟩
    \addcontentsline{toc}{chapter}{\ITEC@enabstractname}
    \markboth{\ITEC@enabstractname}{}
⟨/class-en⟩
    \ITEC@enabstractpage
    \clearpage
}
```

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

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

```
\let\ITEC@tableofcontents\tableofcontents
\def\tableofcontents{
⟨*class-zh⟩
    \pdfbookmark{\contentsnamenospace}{\contentsnamenospace}
    \markboth{\contentsnamenospace}{}
⟨/class-zh⟩
⟨*class-en⟩
    \pdfbookmark{\contentsname}{\contentsname}
    \markboth{\contentsname}{}
⟨/class-en⟩
    \let\ITEC@oldmarkboth\markboth
    \renewcommand\markboth[2]{}
    \ITEC@tableofcontents
    \let\markboth\ITEC@oldmarkboth
    \clearpage
}
```

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

`ack` A command to generate acknowledge page.

```
\newenvironment{ack}{
    \clearpage
    \phantomsection
⟨*class-zh⟩
    \addcontentsline{toc}{chapter}{\ITEC@acknamenospace}
    \markboth{\ITEC@acknamenospace}{}
⟨/class-zh⟩
⟨*class-en⟩
    \addcontentsline{toc}{chapter}{\ITEC@ackname}
    \markboth{\ITEC@ackname}{}
```

```
⟨/class-en⟩
  \chapter*{\ITEC@ackname}
  \begingroup
  \normalsize
}{
  \endgroup
}
```

`publications` A command to generate publications page.

```
\newenvironment{publications}{
  \clearpage
  \ifITEC@inappendix
    \chapter{\ITEC@publicationtitle}
    \markboth{\appendixname\,\thechapter\hspace{1em}\ITEC@publicationtitle}{}
  \else
    \phantomsection
    \addcontentsline{toc}{chapter}{\ITEC@publicationtitle}
    \chapter*{\ITEC@publicationtitle}
    \markboth{\ITEC@publicationtitle}{}
  \fi
  \begin{enumerate}[labelindent=0pt,label={[\arabic*]}]
}{
  \end{enumerate}
}
```

`\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.

```
⟨*class-zh⟩
\def\thudot{\unskip.}
\def\thumasterbib{[Master Thesis]}
\def\thuphdbib{[Doctor Thesis]}
\bibliographystyle{thubib}
⟨/class-zh⟩
⟨class-en⟩\bibliographystyle{IEEEtran}
\let\ITEC@bibliography\bibliography
\def\bibliography#1{
  \clearpage
  \phantomsection
  \addcontentsline{toc}{chapter}{\bibname}
  \markboth{\bibname}{}
```

```
⟨class-zh⟩\ITEC@bibliography{#1}
⟨class-en⟩\ITEC@bibliography{IEEEabrv,#1}
}
```

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

`appendix` The appendix environment.

```
\newif\ifITEC@inappendix
\ITEC@inappendixfalse
\newif\ifITEC@appendix@resetmainmatter
\ITEC@appendix@resetmainmatterfalse
\renewenvironment{appendix}{
  \if@mainmatter
    \ITEC@appendix@resetmainmatterfalse
  \else
    \ITEC@appendix@resetmainmattertrue
    \@mainmattertrue
  \fi
  \appendixtitletocon
  \appendices
  \titleformat{\chapter}
  {
    \bfseries
⟨class-zh⟩\HEI
    \centering
    \changefont{size=18pt}
  }
  {\appendixname\,\thechapter}
  {1em}
  {}
  \ITEC@inappendixtrue
}{
  \endappendices
  \ITEC@inappendixfalse
  \ifITEC@appendix@resetmainmatter
    \ITEC@appendix@resetmainmatterfalse
    \@mainmatterfalse
  \else\fi
}
```

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

```
\let\ITEC@listoffigures\listoffigures
```

```
\def\listoffigures{
  \clearpage
  \ifITEC@inappendix
    \addtocounter{chapter}{1}
    \def\listfigurename{\appendixname\,\thechapter\hspace{1em}\ITEC@listfigurename}
  \else
    \def\listfigurename{\ITEC@listfigurename}
  \fi
  \phantomsection
  \ifITEC@inappendix
    \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@list-
figurename}
  \else
    \addcontentsline{toc}{chapter}{\listfigurename}
  \fi
  \markboth{\listfigurename}{}
  \let\ITEC@oldmarkboth\markboth
  \renewcommand\markboth[2]{}
  \ITEC@listoffigures
  \let\markboth\ITEC@oldmarkboth
  \def\listfigurename{\ITEC@listfigurename}
}
```

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

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

```
\let\ITEC@listoftables\listoftables
\def\listoftables{
  \clearpage
  \ifITEC@inappendix
    \addtocounter{chapter}{1}
    \def\listtablename{\appendixname\,\thechapter\hspace{1em}\ITEC@listtablename}
  \else
    \def\listtablename{\ITEC@listtablename}
  \fi
  \phantomsection
  \ifITEC@inappendix
    \addcontentsline{toc}{chapter}{\thechapter\hspace{1em}\ITEC@list-
tablename}
  \else
    \addcontentsline{toc}{chapter}{\listtablename}
  \fi
```

```
  \markboth{\listtablename}{}
  \let\ITEC@oldmarkboth\markboth
  \renewcommand\markboth[2]{}
  \ITEC@listoftables
  \let\markboth\ITEC@oldmarkboth
  \def\listtablename{\ITEC@listtablename}
}
```

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

10 Other Command

`\email`

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

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

⟨/class⟩

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