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ABSTRACT

This is a sample document of ouc thesis L^AT_EX template for bachelor, master and doctor. The template is created by Tyrone Zeka, which originate from the template created by zepinglee. The template meets the requirements of ouc thesis writing standards.

This document will show the usage of basic commands provided by L^AT_EX and some features provided by the template. For more information, please refer to the template document oucthesis.pdf.

Key Words: Ocean University of China (ouc); Thesis; L^AT_EX Template; Bachelor; Master; PhD

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Chapter 1 Introduction

1.1 Research Background

In recent years, X has attracted increasing attention due to its wide applications in Y. However, existing methods still face challenges such as Z and limited scalability.

1.2 Research Objectives and Scope

The purpose of this study is to develop an improved framework that addresses these issues by combining A and B techniques.

1.3 Research Methods

This research adopts both theoretical analysis and experimental validation. Data were collected from multiple sources to ensure reliability.

1.4 Thesis Structure

The remainder of this thesis is organized as follows: Chapter ?? reviews related work; Chapter ?? introduces the proposed approach; Chapter ?? presents experiments and results; and Chapter ?? concludes the thesis and suggests future work.

Chapter 2 Mathematics and Formulae

2.1 Mathematical Symbols

The template defines some upright mathematical symbols:

Symbol	命令
Euler's Number	<code>\eu</code>
plural units	<code>\iu</code>
diff	<code>\diff</code>
arg max	<code>\argmax</code>
arg min	<code>\argmin</code>

Examples:

$$e^{i\pi} + 1 = 0 \quad (2.1)$$

$$\frac{d^2 u}{dt^2} = \int f(x) dx \quad (2.2)$$

$$\arg \min_x f(x) \quad (2.3)$$

2.2 Theorems and Proof

Definition 2.1 If the integral of function f is measurable and non-negative, we define its (extended) **Lebesgue integral** by

$$\int f = \sup_g \int g, \quad (2.4)$$

where the supremum is taken over all measurable functions g such that $0 \leq g \leq f$, and where g is bounded and supported on a set of finite measure.

Example 2.1 Simple examples of functions on \mathbb{R}^d that are integrable (or non-integrable) are given by

$$f_a(x) = \begin{cases} |x|^{-a} & \text{if } |x| \leq 1, \\ 0 & \text{if } |x| > 1. \end{cases} \quad (2.5)$$

$$F_a(x) = \frac{1}{1 + |x|^a}, \quad \text{all } x \in \mathbb{R}^d. \quad (2.6)$$

Then f_a is integrable exactly when $a < d$, while F_a is integrable exactly when $a > d$.

Lemma 2.1 (Fatou) Suppose $\{f_n\}$ is a sequence of measurable functions with $f_n \geq 0$. If $\lim_{n \rightarrow \infty} f_n(x) = f(x)$ for a.e. x , then

$$\int f \leq \liminf_{n \rightarrow \infty} \int f_n. \quad (2.7)$$

Remark We do not exclude the cases $\int f = \infty$, or $\liminf_{n \rightarrow \infty} \int f_n = \infty$.

Corollary 2.2 Suppose f is a non-negative measurable function, and $\{f_n\}$ a sequence of non-negative measurable functions with $f_n(x) \leq f(x)$ and $f_n(x) \rightarrow f(x)$ for almost every x . Then

$$\lim_{n \rightarrow \infty} \int f_n = \int f. \quad (2.8)$$

Proposition 2.3 Suppose f is integrable on \mathbb{R}^d . Then for every $\epsilon > 0$:

i. There exists a set of finite measure B (a ball, for example) such that

$$\int_{B^c} |f| < \epsilon. \quad (2.9)$$

ii. There is a $\delta > 0$ such that

$$\int_E |f| < \epsilon \quad \text{whenever } m(E) < \delta. \quad (2.10)$$

Theorem 2.4 Suppose $\{f_n\}$ is a sequence of measurable functions such that $f_n(x) \rightarrow f(x)$ a.e. x , as n tends to infinity. If $|f_n(x)| \leq g(x)$, where g is integrable, then

$$\int |f_n - f| \rightarrow 0 \quad \text{as } n \rightarrow \infty, \quad (2.11)$$

and consequently

$$\int f_n \rightarrow \int f \quad \text{as } n \rightarrow \infty. \quad (2.12)$$

Proof Trivial. □

2.3 Customizable

Axiom of choice Suppose E is a set and E_α is a collection of non-empty subsets of E . Then there is a function $\alpha \mapsto x_\alpha$ (a “choice function”) such that

$$x_\alpha \in E_\alpha, \quad \text{for all } \alpha. \quad (2.13)$$

Observation 1 Suppose a partially ordered set P has the property that every chain has an upper bound in P . Then the set P contains at least one maximal element.

A concise proof Obvious. □

Chapter 3 Floating Elements

3.1 Three-Line Tables

The three-line table format is the recommended style in the **Writing Manual**, as shown in Table 3.1.

Table 3.1 Caption of the table goes here

Operating System	TeX Distribution
All Platforms	TeX Live
macOS	MacTeX
Windows	MikTeX

Notes: This is a very long table note that demonstrates how lengthy footnotes can be displayed properly within a table.

3.2 Long Tables

Tables that span more than one page should use the dedicated `longtable` environment (see Table 3.2).

Table 3.2 Demonstration of Long Table

Name	Description	Remarks
AAAAAAAAAAAAA	BBBBBBBBBBBBB	CCCCCCCCCCCCCCC
AAAAAAAAAAAAA	BBBBBBBBBBBBB	CCCCCCCCCCCCCCC
AAAAAAAAAAAAA	BBBBBBBBBBBBB	CCCCCCCCCCCCCCC
(Repeated rows omitted for brevity)		

3.3 Figures

Some authors prefer to reference figures and tables by relative position (e.g., “the figure below” or “the table above”) and insist that floats be placed exactly where they are mentioned. In fact, this is not recommended because it can easily create large areas of

blank space in the text. In academic writing, the standard way is to refer to elements by their numbers, such as “Figure 3.1” and “Table 3.1” .



Fig. 3.1 Sample Figure

For more examples of figures and graphics, many papers on arXiv provide their \LaTeX source files, which can be studied for reference.

3.4 Algorithm Environment

The `algorithm2e` package is used in this template to typeset algorithms. For detailed usage, please refer to the official documentation of the package.

Data: this text

Result: how to write algorithm with $\text{\LaTeX}2\text{e}$

```

1 initialization;
2 while not at end of this document do
3   read current;
4   if understand then
5     go to next section;
6     current section becomes this one;
7   else
8     go back to the beginning of current section;
9   end
10 end
```

Algorithm 3.1: Example Algorithm 1

Note that algorithms can be included in the thesis, but inserting large blocks of raw code is generally unwise. However, if code must be shown, the `listings` package is recommended for that purpose.

Chapter 4 Citation Anotation Methods

4.1 Numerical Citation System

4.1.1. Superscript Method

<code>\cite{knuth86a}</code>	\Rightarrow	<code>[1]</code>
<code>\citet{knuth86a}</code>	\Rightarrow	<code>Knuth^[1]</code>
<code>\citet[chap.~2]{knuth86a}</code>	\Rightarrow	<code>Knuth^[1]chap. 2</code>
<code>\citep{knuth86a}</code>	\Rightarrow	<code>[1]</code>
<code>\citep[chap.~2]{knuth86a}</code>	\Rightarrow	<code>[1]chap. 2</code>
<code>\citep[see][]{knuth86a}</code>	\Rightarrow	<code>see^[1]</code>
<code>\citep[see][chap.~2]{knuth86a}</code>	\Rightarrow	<code>see^[1]chap. 2</code>
<code>\citet*{knuth86a}</code>	\Rightarrow	<code>Knuth^[1]</code>
<code>\citep*{knuth86a}</code>	\Rightarrow	<code>[1]</code>
<code>\citet{knuth86a,tlc2}</code>	\Rightarrow	<code>Knuth^[1], Mittelbach et al.^[2]</code>
<code>\citep{knuth86a,tlc2}</code>	\Rightarrow	<code>[1,2]</code>
<code>\cite{knuth86a, knuth84}</code>	\Rightarrow	<code>[1,3]</code>
<code>\citet{knuth86a, knuth84}</code>	\Rightarrow	<code>Knuth^[1,3]</code>
<code>\citep{knuth86a, knuth84}</code>	\Rightarrow	<code>[1,3]</code>
<code>\cite{knuth86a, knuth84, tlc2}</code>	\Rightarrow	<code>[1–3]</code>

4.1.2. Numbers

<code>\cite{knuth86a}</code>	\Rightarrow	<code>[1]</code>
<code>\citet{knuth86a}</code>	\Rightarrow	<code>Knuth [1]</code>
<code>\citet[chap.~2]{knuth86a}</code>	\Rightarrow	<code>Knuth [1]^{chap. 2}</code>
<code>\citep{knuth86a}</code>	\Rightarrow	<code>[1]</code>
<code>\citep[chap.~2]{knuth86a}</code>	\Rightarrow	<code>[1]^{chap. 2}</code>
<code>\citep[see][]{knuth86a}</code>	\Rightarrow	<code>[see 1]</code>
<code>\citep[see][chap.~2]{knuth86a}</code>	\Rightarrow	<code>[see 1]^{chap. 2}</code>
<code>\citet*{knuth86a}</code>	\Rightarrow	<code>Knuth [1]</code>
<code>\citep*{knuth86a}</code>	\Rightarrow	<code>[1]</code>

<code>\citet{knuth86a,tlc2}</code>	\Rightarrow Knuth [1], Mittelbach et al. [2]
<code>\citep{knuth86a,tlc2}</code>	\Rightarrow [1, 2]
<code>\cite{knuth86a, knuth84}</code>	\Rightarrow [1, 3]
<code>\citet{knuth86a, knuth84}</code>	\Rightarrow Knuth [1, 3]
<code>\citep{knuth86a, knuth84}</code>	\Rightarrow [1, 3]
<code>\cite{knuth86a, knuth84,tlc2}</code>	\Rightarrow [1–3]

4.2 Author-Year

<code>\cite{knuth86a}</code>	\Rightarrow Knuth (1986)
<code>\citet{knuth86a}</code>	\Rightarrow Knuth (1986)
<code>\citet[chap.~2]{knuth86a}</code>	\Rightarrow Knuth (1986) ^{chap. 2}
<code>\citep{knuth86a}</code>	\Rightarrow (Knuth, 1986)
<code>\citep[chap.~2]{knuth86a}</code>	\Rightarrow (Knuth, 1986) ^{chap. 2}
<code>\citep[see][]{knuth86a}</code>	\Rightarrow (see Knuth, 1986)
<code>\citep[see][chap.~2]{knuth86a}</code>	\Rightarrow (see Knuth, 1986) ^{chap. 2}
<code>\citet*{knuth86a}</code>	\Rightarrow Knuth (1986)
<code>\citep*{knuth86a}</code>	\Rightarrow (Knuth, 1986)
<code>\citet{knuth86a,tlc2}</code>	\Rightarrow Knuth (1986); Mittelbach et al. (2004)
<code>\citep{knuth86a,tlc2}</code>	\Rightarrow (Knuth, 1986; Mittelbach et al., 2004)
<code>\cite{knuth86a, knuth84}</code>	\Rightarrow Knuth (1986, 1984)
<code>\citet{knuth86a, knuth84}</code>	\Rightarrow Knuth (1986, 1984)
<code>\citep{knuth86a, knuth84}</code>	\Rightarrow (Knuth, 1986, 1984)

4.3 Author-Year(no parentheses)

<code>\citealt{tlc2}</code>	\Rightarrow Mittelbach et al. 2004
<code>\citealt*{tlc2}</code>	\Rightarrow Mittelbach, Goossens, Braams, and Carlisle 2004
<code>\citealp{tlc2}</code>	\Rightarrow Mittelbach et al., 2004
<code>\citealp*{tlc2}</code>	\Rightarrow Mittelbach, Goossens, Braams, and Carlisle, 2004
<code>\citealp{tlc2, knuth86a}</code>	\Rightarrow Knuth, 1986; Mittelbach et al., 2004
<code>\citealp[pg.~32]{tlc2}</code>	\Rightarrow Mittelbach et al., 2004 ^{pg. 32}
<code>\citenum{tlc2}</code>	\Rightarrow 2
<code>\citetext{priv.\ comm.}</code>	\Rightarrow (priv. comm.)

`\citeauthor{t1c2}` \Rightarrow Mittelbach et al.
`\citeauthor*{t1c2}` \Rightarrow Mittelbach, Goossens, Braams, and Carlisle
`\citeyear{t1c2}` \Rightarrow 2004
`\citeyearpar{t1c2}` \Rightarrow 2004

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Appendix A Thesis Formatting Guidelines

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Publications

Published Papers

1. Tyrone Zeka, et. all; This Awesome Paper, Some awesome journal, 2025
2. A A A A A A A A A

Papers to be published

1. A A A A A A A A A
2. A A A A A A A A A

Thesis Reports

1. A A A A A A A A A
2. A A A A A A A A A