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THESIS

Submitted as partial fulfillment of the requirements
for the degree of Doctor of Philosophy in Electrical and Computer Engineering
in the Graduate College of the
University of Illinois at Chicago, 2021

Chicago, Illinois

Defense Committee:

Member 1, Chair and Advisor

Member 2

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To myself.

the only person worthy of my company

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AN

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Author's Name
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LIST OF ALGORITHMS

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LIST OF ABBREVIATIONS

LOL	Laugh Out Loud
LMAO	Laughing My Ass Off
UIC	University of Illinois at Chicago

NOTATIONS

Bold lowercase letters are used to denote the vectors and bold uppercase letters for matrices.

The following mathematical notations are used throughout this thesis:

$ x $	the absolute value of a scalar x
$\mathbf{x}_m(k)$	the k^{th} element of vector \mathbf{x}_m
$[\mathbf{X}]_{i,j}$	the $(i, j)^{\text{th}}$ element of matrix \mathbf{X}
$\ \mathbf{x}\ _p$	the l_p -norm of \mathbf{x} , defined as $(\sum_k \mathbf{x}(k) ^p)^{\frac{1}{p}}$
j	the imaginary unit <i>i.e.</i> , $j = \sqrt{-1}$

SUMMARY

Briefly describe your project and your contribution here.

CHAPTER 1

INTRODUCTION

This template was created mainly to keep things organized. In terms of design rules, it closely follows the UIC ECE thesis template. Although it was created in 2019, design rules may change in the future. So you might need to update the contents in the ‘bin’ folder and modify some lines in the code. However, otherwise you don’t need to touch the ‘bin’ folder. Some important things to keep in mind,

1. use ‘\CHID_’ to label everything, so that you can refer anything from anywhere without worrying about duplicate labels. Follow the examples in the below.
2. Every paper in the ‘papers’ folders has a ‘figures’ folder inside it. Put figures in the corresponding ‘figures’ folder.
3. Put appendices in appendices.tex with appropriate CHID.
4. Good luck!

1.1 Use of CHID

Notice how the content is being referred outside the its own chapter.

- Figure 1 is in the Chapter 1.
- Figure 2 is in the Chapter 2.
- Figure 3 is in the Chapter 3.

- Figure 4 is in the Chapter 4.
- Figure 5 is in the Chapter 5.
- Figure 6 is in the Chapter 6.

You can use CHID when referring to the content inside its own chapter, but you need to use the code if you want to use it outside. The benefit is that you can use duplicate label names in a different chapter, but as you are using CHID, the it will be labeled differently. Use the CHID defined for the chapter in the corresponding chapter.tex in ‘sources’ folder. Generate new codes if need be.

This is a paragraph with a name.

1.2 Bibliography

Keep all your bibtex in ‘bibphd.bib’ file in the ‘sources’ folder. Unique identifier is needed *e.g.*, [1].

1.3 Extra contents

1.3.1 Figures

An example figure is shown in Figure 1.

1.3.2 Tables

An example table is shown in Table I.

1.3.3 Algorithms

An example table is shown in Algorithm 1.

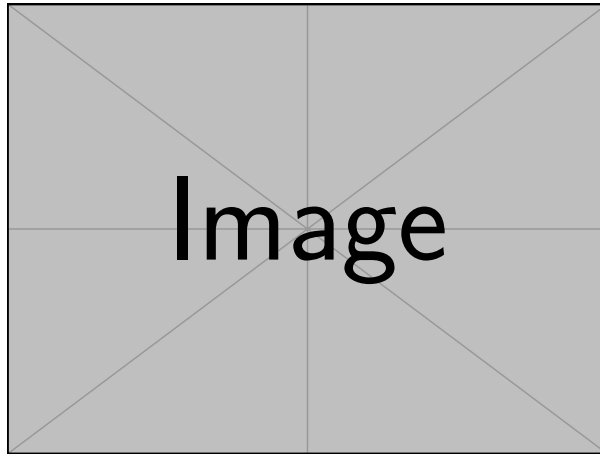


Figure 1. An example figure

TABLE I

AN EXAMPLE TABLE

Notation	Title A	Title B
P_{Text}	Some text	Some more text
S_{Text}	Some text	Some more text
S_{Text}	Some text	Some more text

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Algorithm 1 EXAMPLEALGORITHM

Require: $\text{var1}, \text{var2}, N$ **Ensure:** $\text{var1} \leftarrow 1, \text{var2} \leftarrow 1, \text{flag} \leftarrow 0$ **Input:** $\text{var1}, \text{var2}, N$ **Initialize:** $\text{var1} \leftarrow 1, \text{var2} \leftarrow 1, \text{flag} \leftarrow 0$ **Output:** var3 1: **repeat**

2: SOMESTEPS

3: **until** SOMECONDITIONISMET4: **for** $i = 0$ **to** 10 **do**

5: SOMESTEPSPORLOOP

6: **end for**7: **while** flag **do**8: $\text{var1} \leftarrow \text{DOSOMESHIT}$ 9: $\text{var2} \leftarrow \text{DOSOMEMORESHIT}$ 10: **end while**11: **loop**

12: SOMEINFINITELOOPSTUFF

13: **end loop**14: **if** $\text{var1} < N$ **then**15: $\text{flag} \leftarrow 1$ 16: **else if** $\text{var1} = N$ **then**17: $\text{flag} \leftarrow 0$ 18: **else**19: $\text{var3} \leftarrow \text{var1} + \text{var2}$ 20: **end if**21: **print** some results22: **return** var3

▷ All five commands are equally valid

▷ Example: **repeat**▷ Example: **for** loop▷ Example: **while** loop▷ Example: **loop**▷ Example: **if-else if- else**

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Part I

Part I

I-A

Subpart I A

CHAPTER 2

PAPER I TITLE

Overview: Write abstract here.

Keywords: Write keywords here

2.1 Introduction

1. put figures in 'figures' folder
2. use '`\CHID_`' to label stuffs
3. put appendices in `appendices.tex` with appropriate CHID

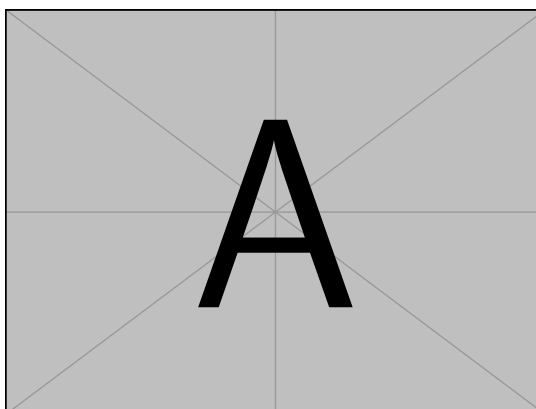


Figure 2. An example figure

Parts of this chapter is taken from published journal article

I-B

Subpart I B

CHAPTER 3

PAPER II TITLE

Overview: Write abstract here.

Keywords: Write keywords here

3.1 Introduction

1. put figures in 'figures' folder
2. use '`\CHID_`' to label stuffs
3. put appendices in `appendices.tex` with appropriate CHID

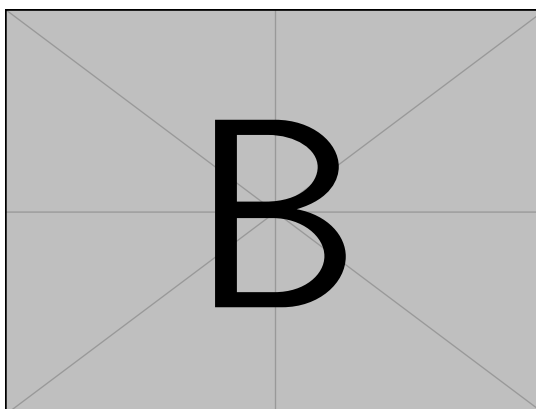


Figure 3. An example figure

Parts of this chapter is taken from published journal article

Part II

Part II

II-A

Subpart II A

CHAPTER 4

PAPER III TITLE

Overview: Write abstract here.

Keywords: Write keywords here

4.1 Introduction

1. put figures in 'figures' folder
2. use '`\CHID_`' to label stuffs
3. put appendices in `appendices.tex` with appropriate CHID

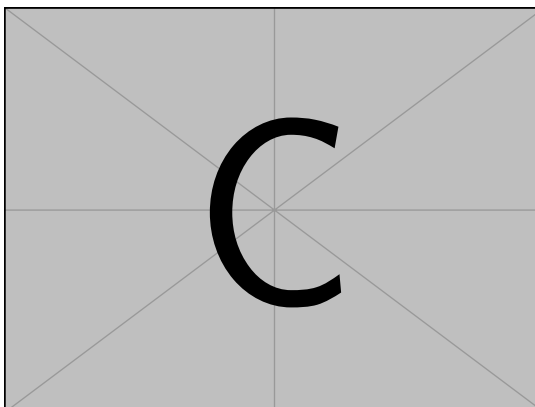


Figure 4. An example figure

parts of this chapter is taken from published journal article

II-B

Subpart II B

CHAPTER 5

PAPER IV TITLE

Overview: Write abstract here.

Keywords: Write keywords here

5.1 Introduction

1. put figures in 'figures' folder
2. use '`\CHID_`' to label stuffs
3. put appendices in `appendices.tex` with appropriate CHID



Figure 5. An example figure

Parts of this chapter is taken from published journal article

II-C

Subpart II C

CHAPTER 6

PAPER V TITLE

Overview: Write abstract here.

Keywords: Write keywords here

6.1 Introduction

1. put figures in 'figures' folder
2. use '`\CHID_`' to label stuffs
3. put appendices in `appendices.tex` with appropriate CHID

Parts of this chapter is taken from published journal article

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0.6	1.6	2.6	3.6	4.6	5.6	6.6	7.6	8.6	9.6
0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
0.4	1.4	2.4	3.4	4.4	5.4	6.4	7.4	8.4	9.4
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0.2	1.2	2.2	3.2	4.2	5.2	6.2	7.2	8.2	9.2
0.1	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1
0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0

Figure 6. An example figure

CHAPTER 7

CONCLUSION

A conclusion is a good thing to have. Hopefully it is a good one!

APPENDICES

Appendix A

Proof of convergence

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Appendix B

Time-complexity analysis of the Algorithm

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Appendix C

Proof

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Appendix D (Continued)



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Publication: IEEE Transactions on Signal Processing

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CITED LITERATURE

1. Grant, M. and Boyd, S.: CVX: Matlab software for disciplined convex programming, version 2.1. <http://cvxr.com/cvx>, March 2014.

VITA

AUTHOR'S NAME

EDUCATION	text text	
EXPERIENCE	position	Mon. 20XX – 20XX
PUBLICATIONS	Journal Publications paper 1 paper 2 Conference Publications paper 1 paper 2 paper 3	
PRESENTATIONS	Invited Talks 20XX IEEE Conference 20XX IEEE Conference Conference Presentations 20XX IEEE Conference 20XX IEEE Conference Poster Presentations 20XX IEEE Conference 20XX IEEE Conference	
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