

**The Hong Kong Polytechnic University**

**Department of Computing**

**Cross-Technology Mutualism  
in the Internet of Things**

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**A thesis  
submitted in partial fulfilment of the requirements  
for the degree of**

**Doctor of Philosophy**

**November 21, 2020**

# CERTIFICATE OF ORIGINALITY

I hereby declare that this thesis is my own work and that, to the best of my knowledge and belief, it reproduces no material previously published or written, nor material that has been accepted for the award of any other degree or diploma, except where due acknowledgement has been made in the text.

\_\_\_\_\_  
(Signed)

Zhenlin An  
\_\_\_\_\_  
(Name of student)

# Abstract

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## Abstract (different language)

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# Acknowledgement

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# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
1.1	Postcards: My Address . . . . .	2
1.2	Motivation and Problem Statement . . . . .	2
1.3	Results . . . . .	3
1.3.1	Some References . . . . .	3
1.4	Thesis Structure . . . . .	5
<b>2</b>	<b>Related Work</b>	<b>7</b>
2.1	Related Work Section 1 . . . . .	8
2.2	Related Work Section 2 . . . . .	9
2.3	Related Work Section 3 . . . . .	10
2.4	Conclusion . . . . .	12
<b>3</b>	<b>System sdede ded edede ededededede ededededede</b>	<b>13</b>
3.1	System Section 1 . . . . .	13
3.2	System Section 2 . . . . .	15
3.3	System Section 3 . . . . .	16
3.4	Conclusion . . . . .	18
<b>4</b>	<b>Concepts: This text is here to test a very long title, to simulate the line break behavior, to show that an extremely long title also works</b>	<b>19</b>
4.1	Concepts Section 1 . . . . .	20
4.2	Concepts Section 2 with a very very long title that illustrates how long section titles are handled in the footer . . . . .	21
4.3	Concepts Section 3 . . . . .	22
4.4	Conclusion . . . . .	24
<b>5</b>	<b>Conclusion</b>	<b>25</b>
5.1	System Section 1 . . . . .	25
5.2	System Section 2 . . . . .	26
5.3	Future Work . . . . .	28

<b>Bibliography</b>	<b>29</b>
<b>A Example Appendix</b>	<b>33</b>
A.1 Appendix Section 1 . . . . .	33
A.2 Appendix Section 2 . . . . .	33
<b>Declaration</b>	<b>36</b>

# Introduction

“ You can’t do better design with a computer, but  
you can speed up your work enormously.

— **Wim Crouwel**

(Graphic designer and typographer)

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## 1.1 Postcards: My Address

**Ricardo Langner**

Alfred-Schrapel-Str. 7

01307 Dresden

Germany

## 1.2 Motivation and Problem Statement

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[Jür00; Jür95; Mie11b; KJ11; App10a; App10b; App10c]

## 1.3 Results

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### 1.3.1 Some References

[@Fre10; @Mie11a] Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet

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## Methodology

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**Strategy 1** And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

```
1 #!/usr/bin/env python
2 print "Hello World"
```

**Listing 1.1:** This simple helloworld.py file prints Hello World.

**Strategy 2** After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

```
1  #!/usr/bin/env python
2  def bubble_sort(list):
3      for num in range(len(list)-1,0,-1):
4          for i in range(num):
5              if list[i]>list[i+1]:
6                  tmp = list[i]
7                  list[i] = list[i+1]
8                  list[i+1] = tmp
9
10 alist = [34,67,2,4,65,16,17,95,20,31]
11 bubble_sort(list)
12 print(list)
```

**Listing 1.2:** This is a bubble sort function.

## 1.4 Thesis Structure

### Chapter 2

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

### Chapter 3

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#### **Chapter 5**

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## Related Work

” *A picture is worth a thousand words. An interface is worth a thousand pictures.*

— Ben Shneiderman

(Professor for Computer Science)

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```
1 public class HelloWorld {  
2     public static void main ( String[] args ) {  
3         // Output Hello World!  
4         System.out.println( "Hello World!" );  
5     }  
6 }
```

**Listing 2.1:** A simple Hellow World example in Java.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there

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## 2.1 Related Work Section 1

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## 2.2 Related Work Section 2

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## 2.4 Conclusion

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# System sdede ded edede ededededede ededededed

” *Innovation distinguishes between a leader and a follower.*

— **Steve Jobs**  
(CEO Apple Inc.)

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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## 3.1 System Section 1

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Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



**Fig. 3.1.1:** Figure example: (a) example part one, (c) example part two; (c) example part three

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## 3.2 System Section 2

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



**Fig. 3.2.:** Another Figure example: (a) example part one, (c) example part two; (c) example part three

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### 3.3 System Section 3

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## 3.4 Conclusion

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Concepts: This text is here to  
test a very long title, to  
simulate the line break  
behavior, to show that an  
extremely long title also works

“Users do not care about what is inside the box,  
as long as the box does what they need done.

— **Jef Raskin**

about Human Computer Interfaces

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## 4.1 Concepts Section 1

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## 4.2 Concepts Section 2 with a very very long title that illustrates how long section titles are handled in the footer

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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## 4.3 Concepts Section 3

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## 4.4 Conclusion

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### 5.1 System Section 1

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## 5.2 System Section 2

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## 5.3 Future Work

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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# List of Figures

3.1	Figure example: <i>(a)</i> example part one, <i>(c)</i> example part two; <i>(c)</i> example part three . . . . .	14
3.2	Another Figure example: <i>(a)</i> example part one, <i>(c)</i> example part two; <i>(c)</i> example part three . . . . .	15

## List of Tables

A.1	This is a caption text. . . . .	33
A.2	This is a caption text. . . . .	34

# List of Listings

1.1	This simple helloworld.py file prints Hello World. . . . .	4
1.2	This is a bubble sort function. . . . .	5
2.1	A simple Hellow World example in Java. . . . .	7

## Example Appendix

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

### A.1 Appendix Section 1

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Alpha	Beta	Gamma
0	1	2
3	4	5

**Tab. A.1.:** This is a caption text.

### A.2 Appendix Section 2

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like

at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Alpha	Beta	Gamma
0	1	2
3	4	5

**Tab. A.2.:** This is a caption text.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.



## Colophon

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*City, November 21, 2020*

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Zhenlin An

