### **CRANFIELD UNIVERSITY**

## CHRISTIAN NAME SURNAME

### **THESIS TITLE**

SCHOOL OF DEFENCE AND SECURITY
Centre for Electronic Warfare, Information and Cyber

Ph.D Academic Year: 2019

Supervisor: Supervisor April 2019

#### CRANFIELD UNIVERSITY

# SCHOOL OF DEFENCE AND SECURITY Centre for Electronic Warfare, Information and Cyber

Ph.D

Academic Year: 2019

### CHRISTIAN NAME SURNAME

### **Thesis Title**

Supervisor: Supervisor April 2019

© Cranfield University 2019. All rights reserved. No part of this publication may be reproduced without the written permission of the copyright owner.

**ABSTRACT** 

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem.

Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec

ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh

lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit.

Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipisc-

ing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque

placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin.

Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a,

egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis

accumsan semper.

**Keywords** 

Keyword 1; keyword 2; keyword 3.

I

# **TABLE OF CONTENTS**

ΑE	BSTRACT	I
LI	ST OF FIGURES	٧
LI	ST OF TABLES	VII
LI	ST OF ALGORITHMS	IX
LI	ST OF PROGRAMMING CODES	ΧI
ΑE	BBREVIATIONS	XIII
S١	MBOLS, UNITS AND NAMES	ΧV
Pι	IBLICATIONS	XVII
1	FIRST CHAPTER 1.1 First Section	<b>1</b> 1
2	EXAMPLES  2.1 Cleveref, Figures and Equations	6
3	NEW CHAPTER 3.1 Section	<b>9</b>
	APPENDIX CHAPTER	11

# **LIST OF FIGURES**

2.1	My figure. Left algined text is set in the style file, so you can write lots	
	of text and still have the figure caption look professional	Ę

# **LIST OF TABLES**

2.1	Here is my first table	3
	J	

# **LIST OF ALGORITHMS**

# **LIST OF PROGRAMMING CODES**

# **ABBREVIATIONS**

EWIC Centre for Electronic Warfare, Information and Cyber

# **SYMBOLS, UNITS AND NAMES**

Symbol	Unit	Name
$\overline{A}$	m	Antenna, cartesian coordinate (transceiver).

## **PUBLICATIONS**

### Conferences

Authors, "Title", Conference Proceedings, Vol. ii, No. ii, pp. ii-ii, Year

#### **Journals**

Authors, "Title", Journal Vol. ii, No ii, pp. ii-ii, Year

### To Be Published

Authors, "Title", 2019

#### 1. FIRST CHAPTER

#### 1.1 First Section

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

#### 1.1.1 First Sub Section

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

#### **First Sub Sub Section**

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel,

semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Etiam lobortis facilisis sem. Nullam nec mi et neque pharetra sollicitudin. Praesent imperdiet mi nec ante. Donec ullamcorper, felis non sodales commodo, lectus velit ultrices augue, a dignissim nibh lectus placerat pede. Vivamus nunc nunc, molestie ut, ultricies vel, semper in, velit. Ut porttitor. Praesent in sapien. Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Duis fringilla tristique neque. Sed interdum libero ut metus. Pellentesque placerat. Nam rutrum augue a leo. Morbi sed elit sit amet ante lobortis sollicitudin. Praesent blandit blandit mauris. Praesent lectus tellus, aliquet aliquam, luctus a, egestas a, turpis. Mauris lacinia lorem sit amet ipsum. Nunc quis urna dictum turpis accumsan semper.

### 2. EXAMPLES

### 2.1 Cleveref, Figures and Equations

Use the cleveref package for referencing; e.g. reference chapter: Chapter 2



Figure 2.1: My figure. Left algined text is set in the style file, so you can write lots of text and still have the figure caption look professional.

Reference lowercase figure: figure 2.1

Reference uppercase figure: Figure 2.1

$$x = \sqrt{\frac{1}{MN} \sum_{i=0}^{N-1} \sum_{j=0}^{M-1} (I_{ij} - \bar{I})^2}$$
 (2.1)

Reference lowercase equation: equation (2.1)

Reference uppercase equation: Equation (2.1)

Aligned equations:

$$y = a_1 x + b_1 (2.2)$$

$$y = a_2 x + b_2 (2.3)$$

$$y = a_3 x + b_3 (2.4)$$

$$y = a_4 x + b_4 (2.5)$$

Cref range example of aligned equations: equations (2.2) to (2.5)

Mixed cref references example: equations (2.2), (2.4) and (2.5) and figure 2.1

# 2.2 Table Example

Table example reference is shown here: table 2.1.

Col 1	Col 2	Col 3
1	4	7
2	5	8
3	6	9

Table 2.1: Here is my first table.

### 2.3 Algorithm Example

Algorithm example reference is shown here: - algorithm 2.1.

### **Algorithm 2.1** Calculate $y = x^n$

```
Require: n \ge 0 \lor x \ne 0
Ensure: y = x^n
   y \Leftarrow 1
   if n < 0 then
      X \Leftarrow 1/x
      N \Leftarrow -n
   else
      X \Leftarrow x
      N \Leftarrow n
   end if
   while N \neq 0 do
      if N is even then
         X \Leftarrow X \times X
         N \Leftarrow N/2
      else \{N \text{ is odd}\}
         y \Leftarrow y \times X
         N \Leftarrow N - 1
      end if
   end while
```

# 3. **NEW CHAPTER**

- 3.1 Section
- 3.1.1 Sub Section

# A. APPENDIX CHAPTER

# A.1 Section