عنوان الرسالة

اسم معد الرسالة

**بحث مقدم لنيل درجة الدكتوراه في العلوم**

**(علوم الحاسبات)**

**اسم المشرف (أو المشرفين) على الرسالة**

كلية الحاسبات وتقنية المعلومات

جامعة الملك عبد العزيز

جدة - المملكة العربية السعودية

شهر هـ –شهر\*\*\*\*\*\* م (تاريخ المناقشة)

THESIS TITLE

By Author

**A thesis submitted for the requirements of the degree**

**of Ph.D. of Science [Computer Science]**

**Supervised By**

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

KING ABDULAZIZ UNIVERSITY

JEDDAH – SAUDI ARABIA

Rajab 1438H – May 2017G

عنوان الرسالة باللغة العربية

إعداد

**تمت الموافقة على قبول هذه الرسالة استكمالاً لمتطلبات**

**درجة الدكتوراه في علوم الحاسبات**

**لجنة المناقشة والحكم على الرسالة**

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THESIS TITLE

By

Author

**This thesis has been approved and accepted in partial**

**fulfilment of the requirements for the degree of**

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**EXAMINATION COMMITTEE**

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KING ABDULAZIZ UNIVERSITY

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Dedication

5G will be a major technology in growing industrial digitalization, creating and enhancing industry digitalization use cases such as immersive gaming, autonomous driving, remote robotic surgery and augmented reality support in maintenance and repair situations. 5G technology will provide a common base to provide a more cost efficient, open, interoperable and large eco-system enabled solution platform for the various vertical industries. 5G is addressing the more stringent and business critical requirements of the vertical industries, such as real-time capabilities, latency, reliability, security and guaranteed Service Level Agreement (SLA)’s. 5G will provide an industry vertical optimized platform catering in an economical way the various requirements and business needs of each vertical. For service providers to offer these capabilities to vertical industries in an attractive, scalable and economical way, they will utilize cloud platforms, analytics, system automation and network slicing technologies as well as new business models. Network slicing is one of the key capabilities that will enable flexibility, as it allows multiple logical networks to be created on top of a common shared physical infrastructure. The greater elasticity brought about by network slicing will help to address the cost, efficiency, and flexibility requirements imposed by the large variety of industrial vertical services. Moreover, network slicing will help new services and new requirements to be quickly addressed, according to the needs of the industries, i.e. a faster Time to Market

Acknowledgement

The Acknowledgement page is optional. If you include it, retain the Acknowledgements heading and enter your text here. If you do not include it, delete the entire page. Be sure to retain the Page Break that occurs after the List of Tables page above.

Abstract

[Enter abstract here, no longer than 300 words. Be sure to retain the Section Break below.]

TABLE OF CONTENTS

Examination Committee Approval

[Dedication v](#_Toc414965526)

[Acknowledgement vi](#_Toc414965527)

[Abstract vii](#_Toc414965528)

[List of Tables ix](#_Toc414965529)

[List of Figures x](#_Toc414965530)

[List of Symbols and Terminology xi](#_Toc414965531)

[Chapter I: Enter Your Chapter Title Here 1](#_Toc414965532)

[First-level Subhead (Heading 2 style) 1](#_Toc414965533)

[Second-level Subhead (Heading 3 style) 1](#_Toc414965534)

[Third-level Subhead (Heading 4 style) 1](#_Toc414965535)

[Adding Captions to Figures and Tables 2](#_Toc414965536)

[Chapter II: Literature Review 3](#_Toc414965537)

[Subhead (Heading 2 style) 3](#_Toc414965538)

[Chapter III: Literature Review 5](#_Toc414965539)

[Chapter II: Literature Review 6](#_Toc414965540)

[LIST OF REFERENCES 7](#_Toc414965541)

[Appendix A - Enter Your Appendix Title Here 8](#_Toc414965542)

[Appendix B - Enter Your Appendix Title Here 9](#_Toc414965543)

List of Tables

[Table 1.1 First Table in Chapter 1. It uses a style of Table Text, which is single-spaced and has no paragraph indent. 2](#_Toc394491152)

[Table 2.1 First Table in Chapter 2. It also uses the style of Table Text. 3](#_Toc394491153)

List of Figures

[Figure 1.1 First Figure in Chapter 1 2](#_Toc394491149)

[Figure 2.1 First Figure in Chapter 2 3](#_Toc394491150)

[Figure A.1 First Figure in Appendix A 6](#_Toc394491151)

List of Symbols and Terminology

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# Chapter I: Introduction

The template makes use of a feature in Word called “styles”. A “style” is a named set of formatting characteristics (similar to the way a vehicle style is named “Mustang” or “Bronco” or “Explorer”). The heading above uses “Heading 1” or “Chapter 1 – Heading 1” style (depending on your Word version); its characteristics are 16 pt font, bold, centered, etc. Other styles are used in other parts of this document; for example: “Heading 2” is for first-level subheads, and “Body Text” is for double-spaced paragraph text.

Using styles has many benefits, especially in a long document:

* The Table of Contents is created automatically (just right-click and Update Field. If a window pops up, select “Update entire table” and click OK).
* It creates a framework that produces a structured document.
* YOU can easily make “global” changes in your document. (If you modify a style in the Style Menu, the changes are applied to all occurrences of that style.)

Contact the Senior Project Committee members for any help.

## First-level Subhead (Heading 2 style)

All first-level subheads in the template use Heading 2 style. To add another subhead level inside a Heading 2 section, use Heading 3 as shown below.

### Second-level Subhead (Heading 3 style)

All second-level subheads in the template use Heading 3. To add another subhead level inside a Heading 3 section, use Heading 4 as shown below.

#### Third-level Subhead (Heading 4 style)

Headings 1-5 can be used in the chapters of your document.

## Adding Captions to Figures and Tables

Sample figures and tables are included in this template to show how they automatically generate entries in the List of Figures and List of Tables. For each figure and table in your document, you will need to insert a caption.

MP00640_

Figure . First Figure in Chapter 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A-D | A | B | C | D |
| 1 | A1 | B1 | C1 | D1 |
| 2 | A2 | B2 | C2 | D2 |
| 3 | A3 | B3 | C3 | D3 |

Table . First Table in Chapter 1. It uses a style of Table Text, which is single-spaced and has no paragraph indent.

# Chapter II: Literature Review

This chapter is included to show a few more examples of headings, subheads, figures, and tables. You can add as many chapters as needed for your ETDR.

## Subhead (Heading 2 style)

As in Chapter 1, Heading 2 style is used for first-level subheads. Use Heading 3 and Heading 4 for second- and third-level subheads.



Figure . First Figure in Chapter 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Section | E | F | G | H |
| 1 | E1 | F1 | G1 | H1 |
| 2 | E2 | F2 | G2 | H2 |
| 3 | E3 | F3 | G3 | H3 |

Table . First Table in Chapter 2. It also uses the style of Table Text.

The figure and table captions above are automatically added to the List of Figures and List of Tables, respectively. (To update the List of Figures and/or List of Tables, put your cursor inside the list you want, right-click, and select “Update Field”. If a window pops up, select “Update entire table” and click OK.)

# Chapter III: Proposed Model

If you need additional chapters, follow these steps:

1. Insert a Page Break.
2. Type the headline that you want in regular text, indicate the chapter number appropriately at 4cm from top of the page.
3. Select the text and apply a “Heading 1” style.

LIST OF REFERENCES

E. Ahmed, Liu Jie Yao, M. Shiraz, A. Gani, and S. Ali, “Fuzzy-based spectrum handoff and Channel selection for Cognitive Radio Networks,” presented at the Computer, Control, Informatics and Its Applications (IC3INA), 2013 International Conference on, 2013, pp. 23–28.

A. G. Fragkiadakis, E. Z. Tragos, and I. G. Askoxylakis, “A Survey on Security Threats and Detection Techniques in Cognitive Radio Networks,” Commun. Surv. Tutorials IEEE, vol. 15, no. 1, pp. 428–445, First Quarter 2013.

M. Youssef, M. Ibrahim, M. Abdelatif, Lin Chen, and A. V. Vasilakos, “Routing Metrics of Cognitive Radio Networks: A Survey,” Commun. Surv. Tutorials IEEE, vol. 16, no. 1, pp. 92–109, First Quarter 2014.

The “Bibliography” style does not automatically format your citations into a specific citation style, such as American Psychological Association (APA), Modern Language Association (MLA), etc. You must enter your citations in IEEE style. You could use bibliographic management software such as EndNote or RefWorks or Zotero.

###### Enter Your Appendix Title Here

Appendices must use alphabetical letters (A, B, C, etc.) instead of numbers. For this reason, the Appendix style at the top of this page is “Heading 6” or “Appendix A - Heading 6” (depending on your Word version). Headings 6-9 are reserved for the Appendix sections.

First-level Appendix Subhead (Heading 7 style)

Within an appendix, Heading 7 is the style to use for all first-level subheads. If you need to add another subhead level within Heading 7, use Heading 8 as shown below.

Second-level Appendix Subhead (Heading 8 style)

Use Heading 8 for all second-level subheads within an appendix. If you need to add another subhead level within Heading 8, use Heading 9 as shown below.

Third-level Appendix Subhead (Heading 9 style)

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Figures and Tables within Appendices

When you first add a figure or table to an appendix, it will be numbered as though it were in a regular chapter. (Example: When the figure below was first inserted, it said “Figure 4.1” but it’s required to display as “Figure A.1”.)

MP00640_

Figure . First Figure in Appendix A

###### Enter Your Appendix Title Here

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2. Type the headline that you want in regular text.
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**اسم معد الرسالة**

**المستخلص**