



**Title of Thesis with Breaking Line
when You Require Multiple Lines**

Naphat Keawpibal

**A Thesis Submitted in Partial Fulfillment of the Requirements for the
Degree of Doctor of Philosophy in Computer Science**

(International Program)

Prince of Songkla University

2018

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Thesis Title Title of Thesis without Breaking Line
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The Graduate School, Prince of Songkla University, has approved this thesis as partial fulfillment of the requirements for the Doctor of Philosophy Degree in Computer Science (International Program).

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 Dean of Graduate School

This is to certify that the work here submitted is the result of the candidate's own investigations. Due acknowledgement has been made of any assistance received.

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I hereby certify that this work has not been accepted in substance for any degree, and is not being currently submitted in candidature for any degree.

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สาขาวิชา	วิทยาการคอมพิวเตอร์ (นานาชาติ)
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Thesis Title	Title of Thesis without Breaking Line
Author	Mr. Naphat Keawpibal
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Academic Year	2018

ABSTRACT

With an example of abstract...

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First of all, I would like to express my deep gratitude to my advisor,

Naphat Keawpibal

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CHAPTER 1

INTRODUCTION

Introduction is here.

1.1 Background and rationale

Here is background and rationale

1.2 Research objectives

Here is background and rationale

1.3 Research contributions

Here is background and rationale

1.4 Dissertation organization

The rest of the dissertation is organized as follows. The next chapter describes the fundamental of ..., and the strategies for In Chapter 3, algorithms to ... are investigated. Chapter 4 presents the proposed algorithm, named xxxxxxxx. In Chapter 5, the performance of the is experimentally evaluated. Finally, the major findings and the directions of further research are summarized in Chapter 6.

CHAPTER 2

RELATED WORKS

This chapter describes the related work.

2.1 Method 1

Here is method 1

CHAPTER 3

ADDITIONAL RELATED WORKS

Chapter 3 is here.

CHAPTER 4

YOUR PROPOSED RESEARCH WORK

Chapter 4 is here.

CHAPTER 5

PERFORMANCE STUDY

Performance study here.

CHAPTER 6

CONCLUSION AND FUTURE WORK

Here is Chapter 6.

6.1 Summary

Summary your work here.

BIBLIOGRAPHY

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APPENDIX A

TITLE APPENDIX 1...

A.1 Section title

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VITAE

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Educational Attainment

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List of Publication and Proceeding

- Naphat Keawpibal, Ladda Preechaveerakul, Sirirut Vanichayobon, “Optimizing Range Query Processing for Dual Bitmap Index”, *Walailak Journal of Science*

and Technology (WJST) (accepted to publish), Vol. 16, No. 1, 2019.

- Naphat Keawpibal, Ladda Preechaveerakul, Sirirut Vanichayobon, “HyBiX: A Novel Encoding Bitmap Index for Space- and Time-Efficient Query Processing”, *Turkish Journal of Electrical Engineering & Computer Sciences* (submitted manuscript).
- Naphat Keawpibal, Jarunee Duangsuwan, Wiphada Wettayaprasit, Ladda Preechaveerakul, Sirirut Vanichayonon, “DistEQ: Distributed Equality Query Processing on Encoded Bitmap Index”, in *2015 12th International Joint Conference on Computer Science and Software Engineering (JCSSE 2015)*, Hat Yai, Thailand, 2015, pp. 309 – 314.
- Amorntep Keawpibal, Niwan Wattanakitrungroj, Sirirut Vanichayonon, “Enhanced Encoded Bitmap Index for Equality Query”, in *2012 8th International Conference on Computing Technology and Information Management (NCM and ICNIT)*, Seoul, South Korea, 2012, pp. 293 – 298.

