

THE THESIS TITLE

A TECHNICAL REPORT SUBMITTED TO AUCKLAND UNIVERSITY OF TECHNOLOGY
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF
MASTER OF COMPUTER AND INFORMATION SCIENCES

Supervisor

Prof. P Supervisor

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Abstract

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This thesis answers all those questions others thought would be too hard.

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I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which to a substantial extent has been accepted for the qualification of any other degree or diploma of a university or other institution of higher learning.

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Laudon, K. & Laudon, J. (2006) Management Information Systems: Managing the Digital Firm, 9th ed. Prentice Hall

Walker, J. (1996) Typical UNIVAC 1108 Prices: 1968 Retrieved from <http://www.fourmilab.ch/documents/univac/config1108.html>

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- Supervisory team;
- Sponsorship of the research;
- Collection of data;
- Processing of the data including the selection and use of particular statistical techniques;
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Chapter 1

Introduction

1.1 Introduction

This is the introduction chapter. Note that the chapter titles are noted as `myChapter`. Read the class file to see how sample chapters can be printed. For the marginal note, use the command

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\marginNote{...}
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This is an example of a cross reference to a figure, Fig. 1.1 on page 11, however using the package `varioref`, we get Fig. 1.1.

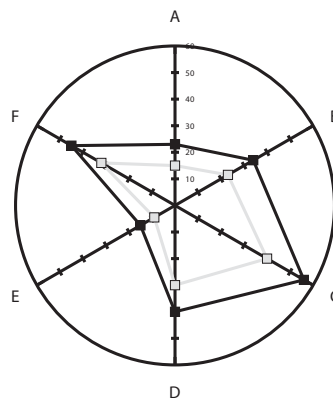


Figure 1.1: This is a sample image file

1.2 Table styles

Table 1.1: Principle-Based Method of Systems Analysis Method (?, ?)

Systems analysis step	Steps in PBMSA
1. Define the problem	Define the problem and Work System together
2. Design potential improvements	Use each Work Principle in turn as a lens for summarising the current situation and search for possible improvements.
	Principle 1 Please the Customers
	Principle 2 Perform the work efficiently
	Principle 3 Serve the Participants
	Principle 4 Create value from information
	Principle 5 Minimise effort absorbed by technology
	Principle 6 Take full advantage of infrastructure
	Principle 7 Minimise unintended conflicts and risks
	Principle 8 Support organisational strategy
	Principle 9 Maintain balance between Work System elements
3. Decide what to do	Make a recommendation that addresses the problem while supporting the organisation's priorities.

This is a link to Fig. 1.1 on the previous page.

Table 1.2: Extended version of Work System Principles

Source: (Adapted from ?, ?, Table 2, pp. 1607–8)

Work system principle	Related Work System element
1: Please the customers.	Customers and products & services
[†] 2: Balance priorities of different customers.	Customers and products

Continued over page

[†]Those principles that have been added in Alter's revision are indicated with a † symbol.

Table 1.2: Extended version. . . (*continued*)

	Work system principle	Related Work System element
†	3: Match process flexibility with product variability.	Product and work practices ²
	4: Perform the work efficiently.	Work practices
†	5: Encourage appropriate use of judgement.	Work practices
†	6: Control variances (problems) at their source.	Work practices
†	7: Monitor the quality of both inputs and outputs.	Work practices
†	8: Boundaries between business process steps should facilitate control	Work practices
†	9: Match the work practices with the participants.	Work practices and participants
	10: Serve the participants	Participants
†	11: Align participant incentives with system goals	Participants
†	12: Provide information where it will affect action	Information and work practices
†	13: Protect information from inappropriate use	Information
†	14: Use appropriate technology	Technology and work practices
	15: Minimise effort consumed by technology	Technology
	16: Take full advantage of infrastructure	Infrastructure
	17: Minimise unnecessary conflict with the external environment	Environment ³
	18: Support the firm's strategy	Strategy
	19: Minimise unnecessary risks	System as a whole
	20: Maintain balance between work system elements	System as a whole
†	21: Maintain the ability to adapt, change, and grow.	System as a whole

A sample citation: (?, ?).

apacite specific examples:

²Previously referred to as Business Processes, Alter has changed term to “work practices.”

³Previously referred to as Context, Environment is distinct from Infrastructure and Technology whereas Context could be confused with both.

- ? (?)
- ?, ?

1.3 Listing styles

1.3.1 Itemised list

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1.3.2 Enumerated list

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1.3.3 Description list

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1.4 Some various citation styles

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1.5 Some verbatim code

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        and further indented
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1.6 Conclusion

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Chapter 2

Literature Review

2.1 Introduction

The literature review design of this PHD research constitutes of 3 parts, 2 systematic literature reviews (SLR) on the topics ‘Big data reference architectures’ and ‘E-commerce systems’ and one generic literature review on the topic ‘Big data’. Systematic literature reviews take shape by embarking on an extensive search for topic-related articles within the years 2010-2020. Most literature chosen for the purposes of this research are within the years 2016-2020 as they provided with recent, and more relevant information. Albeit, some old studies dating back to 2010, helped clarifying some basic matters that existed and how they correlated to big data. world most renowned online libraries for quality research have been selected such as IEEE, MIS Quarterly, Science Direct, Elsevier, Springer, ACM, AISEL and Emerald insight. Every library provided with a vast sea of research and inordinate amount of information to absorb. Arguably, different publications provided with different sort of mental framework and so did the authors. For instance, it’s been found that many high-quality information system researches are published in MIS quarterly, whereas Elsevir and SpringerLink provided with quality big-data literature. A combination of long-tail and short-tail keywords are chosen to

target literature that are related to the current state of art. Keywords chosen for 'Big data reference architectures' SLR are 'big data reference architectures', and 'reference architectures'. Keywords chosen for 'E-commerce systems' are 'e-commerce system architectures', 'smart e-commerce systems', and 'e-commerce and big data'. Each systematic literature review is conducted in a span of three weeks. In what follows, first the generic big data literature review will be conducted, second 'big data reference architecture' SLR and finally 'E-commerce systems' SLR will take place.

2.2 State of the art

We've come a long way with technology, and specifically software development. In fact, the rapid advancements left many spaced out. From the emergence of the first computer Eniac in 1946 to 8-core 5.0GHz processing core speed in 2019; From document-oriented waterfalls to agile two-weeks sprints; from punch cards to fancy transpilers and dynamic programming languages. Computers were first perceived as calculation engines and has been used to focus entirely on algorithms and mathematics. It was during the mid-1950, that it became commercially available and businessmen start to pick it up to produce value for business. Along the lines, once people started using computers for real-life purposes, many leftover data has been produced, as these data increased, people started realizing the value of it and began to store it (Grad & Bergin, 2009).

That's where the industry came up with a concept of a Database Management System (DBMS), and humanity began to store data for various purposes. In 1968, as a result of a NATO-sponsored conference, the term software engineering emerged, referring to a highly systematic approach to software development and maintenance (Wirth, 2008).

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2.4 Conclusion

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Chapter 3

Method

3.1 Introduction

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3.2 Conclusion

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Chapter 4

Analysis

4.1 Introduction

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Chapter 5

Discussion

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Chapter 6

Conclusion

6.1 Introduction

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Appendix A

Glossary

First term The definition for the first term.

Second term The definition of the second term.

Appendix B

Additional information here

B.1 Introduction

This is an optional section for any supplementary material that documents important components of the thesis/dissertation/exegesis research process. Appendices should be formatted according to APA style or other approved reference style. The content of the appendices may vary depending on the methodology used however, the following is a guide on what should be included in the appendix:

Appendix A: Ethics Approval (may be more than one letter) **Appendix B:** Tools

- a) Interviews, focus group, observation guide
- b) Participant Information Sheet
- c) Consent form
- d) Letters of support (if applicable) or support services
- e) Letter requesting access

Appendix C: Sample of coding or sample of thematic analysis (if applicable) **Appendix D:** Research outputs from thesis or publication from thesis (if applicable)

Other appendices may include (if applicable):

- Glossary
- Transcriber confidentiality agreement
- Profiles

Appendix C

More additional information here

C.1 Introduction

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Appendix D

Third Party Copyright material

Confidential material will normally be provided in a separate annex to the thesis/dissertation/exegesis.

The Application for Embargo Form (PGR16) must be bound into all copies being lodged for examination and all final bound copies.

If you wish to include in your thesis/dissertation/exegesis any material to which another person or entity holds the rights, for example an artwork, photograph or lengthy extract of text, you should obtain the permission of the copyright holder.

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