UNCERTAINTY IN RECURRENT NEURAL NETWORKS

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UNCERTAINTY IN RECURRENT NEURAL NETWORKS

ALIREZA SAMAR

A thesis submitted in fulfilment of the
requirements for the award of the degree of
Master of Philosophy

Advanced Informatics School
Universiti Teknologi Malaysia

APRIL 2017

I declare that this thesis entitled *"Uncertainty in Recurrent Neural Networks"* is the result of my own research except as cited in the references. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature	:	
Name	:	Alireza Samar
Date	:	April 16, 2017

Dedication

ACKNOWLEDGEMENT

Acknowledgement

ABSTRACT

This is the English abstract

ABSTRAK

Ini adalah abstrak Bahasa Melayu

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LIST OF ABBREVIATIONS

ANN	-	Artificial Neural Network
PC	-	Personal Computer
SVM	-	Support Vector Machine
XML	-	Extensible Markup Language

LIST OF SYMBOLS

γ	-	Whatever
σ	-	Whatever
ε	-	Whatever

LIST OF APPENDICES

CHAPTER 1

INTRODUCTION

1.1   Introduction:

Introduction to the thesis [**?**] to the thesis [**?**]. This section attempts to give a brief introduction to quantum computing. Before entering the microscopic world of quantum computing, we revisit the present digital system commonly used by the masses. The current digital system is based on binary digits, commonly known as bits. Each bit is represented with a binary value called "logic 0" or "logic 1" and the number of distinct states is 2^n, where n is the number of bits. Physically, these logic values are typically represented by two different voltage levels. In this thesis, such computers are referred to as a *classical computer*.

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   (a) item 3

2. item 4

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The processing at layer-5[1] is done ...

---

[1]In this thesis, OSI model is used.

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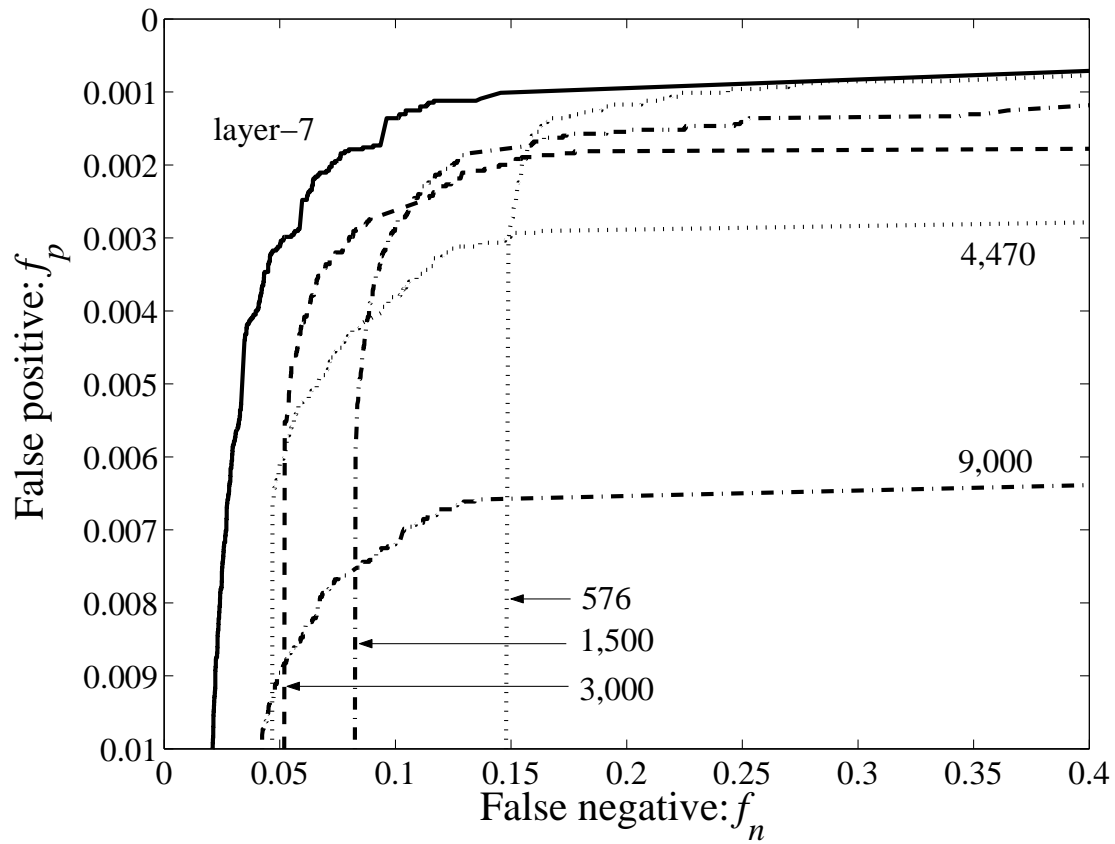
4.4   **Chapter Summary**

Figure 4.1: Example of a figure. This is a long, very long, long long, long caption. You can give a shorter caption for the "list of figures" using the square braket symbol.

Table 4.1: Example of a table. This is a long, very long, long long, long caption. You can give a shorter caption for the "list of table" using the square braket symbol.

Temperature	Resonant Frequency	Q factor
13 mK ± 1 mK	16.93	811
40 mK ± 1 mK	16.93	817
100 mK ± 1 mK	16.93	815
300 mK ± 1 mK	16.93	806
500 mK ± 1 mK	16.93	811
800 mK ± 5 mK	16.93	814
1000 mK ± 5 mK	16.93	806

REFERENCES

APPENDIX A

DO NOT USE LONG TITLES.

APPENDIX B

PSEUDO-CODES

APPENDIX C

TIME-SERIES RESULTS