

**Faculty of Natural and  
Mathematical Sciences**  
Department of Informatics



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**Degree Programme:** MSc Web Intelligence MSc  
**Project Title:** Super duper test title  
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**Word Count:** XXXXXXXX

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## Super duper test title

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**John Doe**

Student Number: XXXXX

Course: MSc Web Intelligence MSc

**Supervisor: Dr Frankenstein**



Thesis submitted as part of the requirements for the award of the MSc in Web  
Intelligence.

7CCSMPRJ - MSc Individual Project - 2016

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## Abstract

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## Acknowledgements

I would like to thank my supervisor.....

# 1 Introduction

## 1.1 Project Aims, Objectives and Introduction

It gives a basic background of the work. The problems and project objectives should be clearly stated. The techniques and approaches used to deal with the problem should be stated with reasons, and the contributions and main results achieved should be stated clearly. The structure of the report can be described briefly at the end

## 1.2 Background and Literature Survey

It gives an overall picture about the work with a clear review of the relevant literature. The background of the project should be given. What have been done to deal with the problem should be stated clearly. The pros and cons of various existing algorithms and approaches should be stated as well. Differences between your proposed method and the existing ones should be briefly described.

The following links may help on the literature review: IEEE Xplore digital library: a resource for accessing IEEE published scientific and technical publications (You must be with King's network to get access to the digital library) ScienceDirect.com: an electronic database offering journal papers not published by IEEE (You must be with King's network to get access to the database)



## 2 Background Theories

The background theories supporting the work should be given in this section.

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### 3 Main Result

The chapter reports the contribution of your work. For example, it could contain the following sub-sections to summarise the contribution of the project: Theoretical Development, Analysis and Design, Implementation and Experimental Work, Results, Observation and Discussion.

#### 3.1 Maths

$$\frac{dS_t}{S_t} = rdt + \sigma dW_t, \quad S_0 > 0, \quad (3.1)$$

The equation  $\sigma = ma$  follows easily [1].

#### 3.2 Glossary and acronyms

Unix operating systems are better then Windows because they support out of the box [4].

RefMissing:  
A ref is  
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#### 3.3 Figures

Here is an example [3] of how to inserta picture:

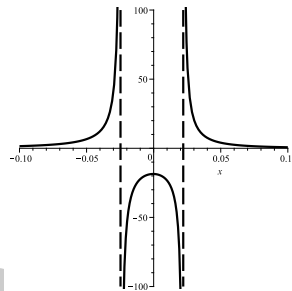


Figure 1: This is the caption for the figure.

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or two side-by-side pictures:

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care!

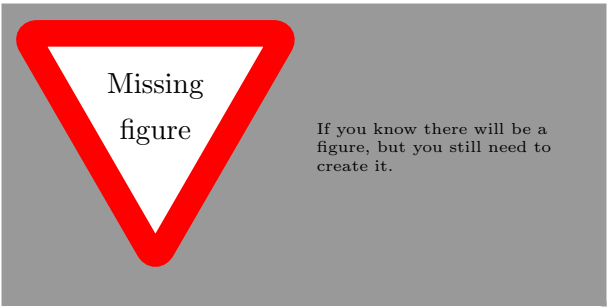


Figure 2: This is the caption for the figure which is not even present.

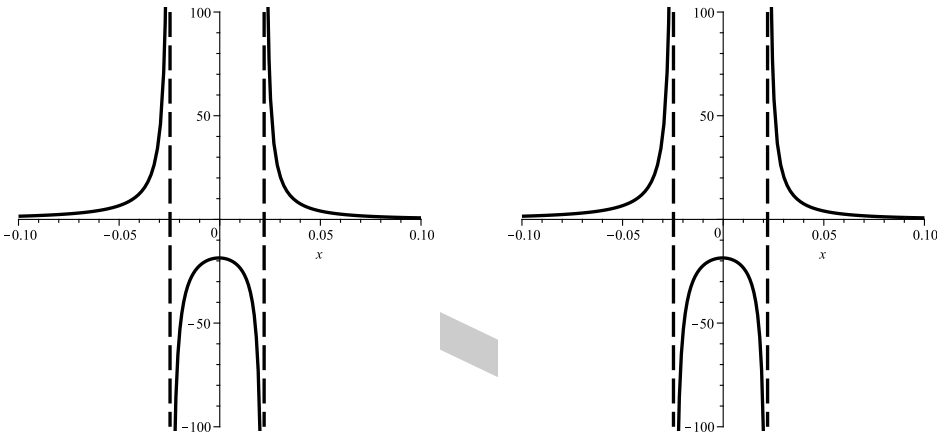


Figure 3: Another caption

3.4Table

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Something	Someother	Thing
Seems	to be	good

Explain:  
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further ex-  
planation

Table 1: Random data for a table.

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## 4 Model calibration

### 4.1 What is calibration?

Here is an example of a matrix [2] in  $A \in \mathcal{M}_n(\mathbb{R})$ :

$$A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & \ddots & \ddots & \vdots \\ \vdots & \ddots & \ddots & \vdots \\ a_{n1} & \dots & \dots & a_{nn} \end{pmatrix}$$

### 4.2 Numerical methods for calibration

...

## 5 Conclusion

It is a chapter to sum up the main points of the work, such as the aims and objectives of the project, the contributions and results you have achieved. Future plan and development can be mentioned in this section.

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## References

- [1] J. Doe. “The Title”. PhD thesis. University of Mars, 2011.
- [2] Fermentas Inc. *Phage Lambda: description & restriction map*. Nov. 2008. URL: <http://www.fermentas.com/techinfo/nucleicacids/maplambda.htm>.
- [3] I.M. Johnstone and B.W. Silverman. “EbayesThresh: R programs for Empirical Bayes Thresholding”. In: *Journal of Statistical Software* 12.8 (2005), pp. 1–38.
- [4] Ian M. Johnstone. *Gaussian estimation: Sequence and multiresolution models*. 2011.

## Declaration

I declare that this thesis is the solely effort of the author. I did not use any other sources and references than the listed ones. I have marked all contained direct or indirect statements from other sources as such.

Neither this work nor significant parts of it were part of another review process. I did not publish this work partially or completely yet. The electronic copy is consistent with all submitted copies.

Signature and date:



## A Review of stochastic calculus

### A.1 Riemann integration

### A.2 The Itô integral