Insert here your thesis' task.

Czech Technical University in Prague
Faculty of Information Technology
Department of Theoretical Computer Science

Master's thesis

Thesis title (SPECIFY)

Bc. Lukáš Lopatovský

Supervisor: Ing. Daniel VaÅąata, Ph.D.

3rd December 2016

Acknowledgements

THANKS (remove entirely in case you do not with to thank anyone)

Declaration

I hereby declare that the presented thesis is my own work and that I have cited all sources of information in accordance with the Guideline for adhering to ethical principles when elaborating an academic final thesis.

I acknowledge that my thesis is subject to the rights and obligations stipulated by the Act No. 121/2000 Coll., the Copyright Act, as amended, in particular that the Czech Technical University in Prague has the right to conclude a license agreement on the utilization of this thesis as school work under the provisions of Article 60(1) of the Act.

In Prague on 3rd December 2016 .....

Czech Technical University in Prague
Faculty of Information Technology
© 2016 Lukáš Lopatovský. All rights reserved.
This thesis is school work as defined by Copyright Act of the Czech Republic. It has been submitted at Czech Technical University in Prague, Faculty of Information Technology. The thesis is protected by the Copyright Act and its usage without author's permission is prohibited (with exceptions defined by the Copyright Act).

Citation of this thesis

Lopatovský, Lukáš. *Thesis title (SPECIFY).* Master's thesis. Czech Technical University in Prague, Faculty of Information Technology, 2016.

Abstrakt

V několika větách shrňte obsah a přínos této práce v českém jazyce.

Klíčová slova Replace with comma-separated list of keywords in Czech.

Abstract

Summarize the contents and contribution of your work in a few sentences in English language.

Keywords Fabulous, Great, Extraordinary.

Contents

Introduction **1**
Motivation and objectives 1

1 Continuous-time Markov Chain **3**
1.1 Definition 3
1.2 3

2 State-of-the-art **5**

3 Analysis and design **7**

4 Realisation **9**

Conclusion **11**

A Acronyms **13**

B Contents of enclosed CD **15**

List of Figures

Introduction

This is the master thesis. welcome!

Motivation and objectives

Chapter 1

Continuous-time Markov Chain

1.1 Definition

$$\begin{aligned} &\mathrm{P}(X_t + s = j \mid X_s = i, X_{s_n} = i_n, \cdots, X_{s_0}) = \\ &= \mathrm{P}(X_t + s = j \mid X_s = i) = \mathrm{P}(X_t = j \mid X_0 = i) \end{aligned} \tag{1.1}$$

Chapman-Kolmogoroff equation:

$$\sum_k \mathrm{p_s}(i,k)\mathrm{p_t}(k,j) = \mathrm{p_{s+t}}(i,j) \tag{1.2}$$

Jump rate:

$$\mathrm{q}(i,j) = \left.\frac{\mathrm{dp_t}(i,j)}{\mathrm{dt}}\right|_{t=0} = \lim_{t\to 0^+} \frac{\mathrm{p_t}(i,j)}{t}, \text{if } i \neq j \tag{1.3}$$

1.2

Chapter 2

State-of-the-art

Chapter 3

Analysis and design

Chapter 4

Realisation

Conclusion

Appendix A

Acronyms

GUI Graphical user interface

XML Extensible markup language

Appendix B

Contents of enclosed CD

- `readme.txt` ..... the file with CD contents description
- `exe` ..... the directory with executables
- `src` ..... the directory of source codes
  - `wbdcm` ..... implementation sources
  - `thesis` ..... the directory of LaTeX source codes of the thesis
- `text` ..... the thesis text directory
  - `thesis.pdf` ..... the thesis text in PDF format
  - `thesis.ps` ..... the thesis text in PS format