



Silesian
University
of Technology

MASTER THESIS

Thesis title in English

First Names SURNAME

Student identification number: **<your student id>**

Programme: Informatics

Specialisation: Informatics

SUPERVISOR

<title first name surname>

DEPARTMENT <departament name>

Faculty of Automatic Control, Electronics and Computer Science

CONSULTANT

<title first name surname>

Gliwice 2022

Thesis title

Thesis title in English

Abstract

(Thesis abstract – to be copied into an appropriate field during an electronic submission – in English.)

Key words

(2-5 keywords, separated by commas)

Tytuł pracy

Thesis title in Polish

Streszczenie

(Streszczenie pracy – odpowiednie pole w systemie APD powinno zawierać kopię tego streszczenia.)

Słowa kluczowe

(2-5 słów (fraz) kluczowych, oddzielonych przecinkami)

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Chapter 1

Introduction

- introduction into the problem domain
- settling of the problem in the domain
- objective of the thesis
- scope of the thesis
- short description of chapters
- clear description of contribution of the thesis's author

Chapter 2

[Problem analysis]

- problem analysis, problem statement
- state of the art, literature research (all sources in the thesis have to be referenced, eg journal article [2] book [1], conference paper [3], internet source [4])
- description of known solutions, algorithms
- location of the thesis in scientific domain
- The title of this chapter is similar to the title of the thesis.

Chapter 3

[Subject of the thesis]

- solution to the problem proposed by the author of the thesis
- theoretical analysis of proposed solutions
- rationale of applied methods, algorithms, and tools

Chapter 4

Experiments

This chapter presents the experiments. It is a crucial part of the thesis and has to dominate in the thesis. The experiments and their analysis should be done in the way commonly accepted in the scientific community (eg. benchmark datasets, cross validation of elaborated results, reproducibility and replicability of tests etc).

4.1 Methodology

- description of methodology of experiments
- description of experimental framework (description of user interface of research applications – move to an appendix)

4.2 Data sets

- description of data sets

4.3 Results

- presentation of results, analysis and wide discussion of elaborated results, conclusions

Table 4.1: A caption of a table is **above** it.

| ζ | method | | | | | | |
|---------|---------|---------|----------------|--------------|--------------|----------------------|----------------|
| | alg. 1 | alg. 2 | alg. 3 | | | alg. 4, $\gamma = 2$ | |
| | | | $\alpha = 1.5$ | $\alpha = 2$ | $\alpha = 3$ | $\beta = 0.1$ | $\beta = -0.1$ |
| 0 | 8.3250 | 1.45305 | 7.5791 | 14.8517 | 20.0028 | 1.16396 | 1.1365 |
| 5 | 0.6111 | 2.27126 | 6.9952 | 13.8560 | 18.6064 | 1.18659 | 1.1630 |
| 10 | 11.6126 | 2.69218 | 6.2520 | 12.5202 | 16.8278 | 1.23180 | 1.2045 |
| 15 | 0.5665 | 2.95046 | 5.7753 | 11.4588 | 15.4837 | 1.25131 | 1.2614 |
| 20 | 15.8728 | 3.07225 | 5.3071 | 10.3935 | 13.8738 | 1.25307 | 1.2217 |
| 25 | 0.9791 | 3.19034 | 5.4575 | 9.9533 | 13.0721 | 1.27104 | 1.2640 |
| 30 | 2.0228 | 3.27474 | 5.7461 | 9.7164 | 12.2637 | 1.33404 | 1.3209 |
| 35 | 13.4210 | 3.36086 | 6.6735 | 10.0442 | 12.0270 | 1.35385 | 1.3059 |
| 40 | 13.2226 | 3.36420 | 7.7248 | 10.4495 | 12.0379 | 1.34919 | 1.2768 |
| 45 | 12.8445 | 3.47436 | 8.5539 | 10.8552 | 12.2773 | 1.42303 | 1.4362 |
| 50 | 12.9245 | 3.58228 | 9.2702 | 11.2183 | 12.3990 | 1.40922 | 1.3724 |

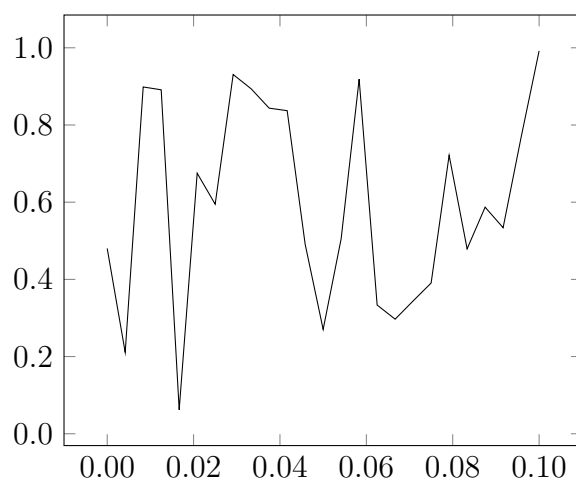


Figure 4.1: Podpis rysunku po rysunkiem.

Chapter 5

Summary

- synthetic description of performed work
- conclusions
- future development, potential future research
- Has the objective been reached?

Bibliography

- [1] Name Surname and Name Surname. *Title of a book*. Hong Kong: Publisher, 2017. ISBN: 83-204-3229-9-434.
- [2] Name Surname and Name Surname. ‘Title of an article in a journal’. In: *Journal Title* 157.8 (2016), pp. 1092–1113.
- [3] Name Surname, Name Surname and N. Surname. ‘Title of a conference article’. In: *Conference title*. 2006, pp. 5346–5349.
- [4] Name Surname, Name Surname and N. Surname. *Title of a web page*. 2021. URL: <http://somewhere/on/the/internet.html> (visited on 30/09/2021).

Appendices

Technical documentation

List of abbreviations and symbols

DNA deoxyribonucleic acid

MVC model–view–controller

N cardinality of data set

μ membership function of a fuzzy set

\mathbb{E} set of edges of a graph

\mathcal{L} Laplace transformation

List of additional files in electronic submission (if applicable)

Additional files uploaded to the system include:

- source code of the application,
- test data,
- a video file showing how software or hardware developed for thesis is used,
- etc.

List of Figures

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