

MASTER THESIS

Thesis title in English

First Names SURNAME

Student identification number: (student id)

Programme: Informatics

Specialisation: Informatics

SUPERVISOR

 \langle title first name surname \rangle

DEPARTMENT (departament name)

Faculty of Automatic Control, Electronics and Computer Science

CONSULTANT

 \langle title first name surname \rangle

Gliwice 2023

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 slow (fraz) kluczowych, oddzielonych przecinkami)

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Introduction

[Chapter title]

References to book [1], scientific papers in journals [2], conference papers [3], and web pages [4].

Equations should be numbered:

$$y = \frac{\partial x}{\partial t} \tag{2.1}$$

body of the definitions

[Chapter title]

tekst

3.1 [Section title]

3.2 [Subsection title]

Each figure in the document should be referred to at least once (fig. 3.1). Each table in the document should be referred to at least once (Tab. 3.1).

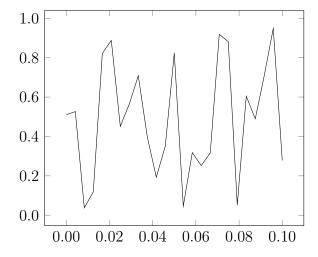


Figure 3.1: Figure caption.

Table 3.1: A caption of a table is ABOVE it.

| | method | | | | | | | | | | | | |
|----|---------|---------|----------------|--------------|--------------|---------------|----------------|--|--|--|--|--|--|
| | | | | alg. 3 | alg. 4 | $\gamma = 2$ | | | | | | | |
| ζ | alg. 1 | alg. 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 | | | | | | |

Experiments

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

 $\mu\,$ 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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List of Tables

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