Title

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By

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Institute of Information Technology
Kyrgyz State Technical University named after I. Razzakov

A dissertation submitted to the Kyrgyz State Technical University named after I. Razzakov in accordance with the requirements for award of the degree of Doctor in Philosophy in the Department of Applied Mathematics and Computer Science.

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DISSERTATION'S TITLE

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DISSERTATION

Submitted for the degree of
Doctor of Philosophy
in the institute of Information Technology

Department of Applied Mathematics and Computer Science
Kyrgyz State Technical University named after I. Razzakov

Bishkek, Kyrgyz Republic

Doctoral Committee:

Prof. Dr. Julius R. Oppenheimer
Prof. Dr. Albert Einstein
Prof. Dr. Isaac Newton
Prof. Dr. Charles R. Darwin
Prof. Dr. Marie S. Curie

Space for dedications.

Abstract

English abstract...

List of Publications

Appended publications

This thesis is based on the following publications:

[Paper I] A. Andersson, S. O. Person, J. Whoever, *Title of the first paper*
Some Journal 39 (May 2019), 133-144.

[Paper II] A. Andersson, *Title of the second paper*
Submitted, under review.

Space for acknowledgements.

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Glossary

AI Artificial Intelligence. A branch of computer science where computers perform operations based on learning and decision making. 1

Part I

Fundamentals

Chapter 1

Introduction

This chapter is intended to give the reader an insight into the topic, and to provide an overview of the thesis at hand, summarizing its motivation, approach and the problem statement completed by an outline.

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1.1 Motivation and problem statement

1.1.1 Motivation

1.1.2 Problem statement

Chapter 2

Summary

The following chapter concludes the thesis, identifies the main contributions, highlights benefits and limitations of the proposed approach and discusses possible future works within the related field of research.

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2.1 Contributions

2.2 Benefits

2.3 Limitations

2.4 Outlook

Bibliography

[1] Lotfi Ben Othmane, Ruchith Fernando, Rohit Ranchal, Bharat Bhargava, and Eric Bodden, "Likelihoods of Threats to Connected Vehicles," *International Journal of Next-Generation Computing*, vol. 5, no. 3, 2014.

Declaration of originality

I hereby declare that

- this thesis is entirely the product of my own scholarly work, unless otherwise indicated in the text or references, or acknowledged below,
- I have indicated the thoughts adopted directly or indirectly from other sources at the appropriate places within the document,
- this thesis has not been submitted either in whole or part, for a degree at this or any other university or institution,
- I have not published this thesis in the past,
- the printed version is equivalent to the submitted electronic one and
- I am aware that a dishonest declaration will entail legal consequences.

Stuttgart, July 1, 2026

Mikhail Smolin