TTK4550

Mobile Autonomous Robot

An Interesting Topic About Mobile Autonomous Robots

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Abstract

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1 Introduction

1.1 Long-term Goal of the Project

Put the task into a larger context. Bring in some points on the societal impact of autonomous robotics and the increased potential of mobile robotics.

1.2 System Overview

Brief description of the system.

1.3 Report Structure

How the report is structured, and a very brief description of the contents in each section.

2 The Task

Description of the task to be solved during the project based on the formal problem description.
More spesific description of the task. Break the problem description into sub tasks(?).

3 Background Theory

The theory that is necessary to understand how the problem was solved.

3.1 Computer Vision

3.2 Optical flow(?)

3.3 Real-Time Systems

3.4 Selection of Real-Time System(?)

3.5 LIDAR

3.6 Vehicle Dynamics

3.7 Vehicle Control

4 Implementation

Everything worked excacly as described in the theory section.

5 Testing and Assessment of Performance

5.1 Navigation

5.2 Real-Time Demands

6 Conclusion

It is a robot.

7 Further Work

7.1 Cooperation With Ole Magnus

A Code

```
printf("Hello world!")
```

B Bibliography