Introduction
Motivation
Every day people are exposed to have some kind of accident and the worst kind of accidents are those that put thei
What if the firefighters are supported by rescue robots? With the use of rescue robots that explore the accident are
In this work, we try to enable rescue robots to explore buildings with the use of LiDAR systems and 3D models of
Challenges and Difficulties
Most of the registration algorithms are focused on working for two point clouds. Just a few registration algorithms
The registration process is normally done manually, due to the fact that it is a simple task for a human since we all
An additional challenge is the data itself, the point clouds used to test the
At the time this work was started, there was no GPS information of the point clouds used in the registration, just
Problem Statement This work intends to implement an automated registration method for a point cloud with a Cit
[H] [width=]images/Systemaufbau.png A-DRZ architecture system.
The current automated approaches are mainly focused on point-to-point registration. Therefore, the exploration of
Figure **??** shows the general workflow of the needed method. The input of the method is a point cloud together wit
[H] [scale=0.5]images/RegistrationProcess System diagram.
Firstly, the implementation will be tested individually. Secondly, the implementation will be tested with its integrat