Final Presentation Master Thesis

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July 19, 2016

Introduction

Motivation
Dense SLAM

Motivation

B-Splines

Theoretical Concepts

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Theoretical Concepts

Photometric error

Theoretical Concepts

Gauss-newton optimization

Results

Methodology

Problem setup

Methodology

Datasets

Mapping

Plane test case

Mapping
Simulation test case

Mapping

Middlebury dataset

Mapping
Inhouse dataset

Localization

Plane test case

Localization

Simulation test case

Conclusion

Achievements

Suggestions For Future Work