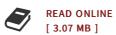# Overview of RGBD-SLAM Approaches

By Tobias Hollarek

Grin Verlag Gmbh Nov 2013, 2013. Taschenbuch. Book Condition: Neu. 210x148x1 mm. This item is printed on demand - Print on Demand Titel. Neuware - Seminar paper from the year 2012 in the subject Computer Science - Applied, grade: 1,3, Technical University of Munich (Lehrstuhl für Echtzeitsysteme und Robotik), course: Hauptseminar Computer Vision & Visual Tracking for Robotic Applications SS2012, language: English, abstract: In this paper I will introduce the reader to RGB-D SLAM which has become the focus of interest for many researchers lately. This is due to the development and distribution of cheap RGB-D sensor devices such as the Microsoft Kinect. After an introduction I will present which steps have to be taken to implement a working SLAM system using RGB-D data. In section three I will introduce three different approaches and will present how they implemented the SLAM and what they did to increase speed, accuracy and robustness of their algorithms. I will then compare the results of all approaches. In the next section I will present what optimization methods two of these approaches implemented to improve their mapping by optimizing with a global approach. These implementations also are reviewed and compared as far as that was...

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