3D structure from visual motion 2011/2012
Project Assignment

Kinfu – an open source implementation of Kinect Fusion + case study: implementing a 3D scanner with PCL

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Introduction

With this project, we aim to explore solutions for the reconstruction of real objects by analyzing the state-of-the-art algorithm Kinect Fusion that allows real-time reconstruction and rendering of a real world scene and one implementation of it. We use the point clouds obtained from Kinect Fusion and the PCL libraries to create a 3D scanner application and show the results of our work.

This document is divided in four parts:

- Part one introduces the Kinect Fusion algorithm with a detailed explanation of its inner workings.
- Part two introduces the Point Cloud Libraries (PCL) and KinFu, the implementation of the Kinect Fusion algorithm that is contained in PCL.
- In part three, the 3D scanner algorithm implemented using PCL is explained.
- In part four, example results obtained with the 3D scanner application are shown.

Kinect Fusion

Kinect Fusion is an algorithm developed by Microsoft Research in 2011[1][2]. The algorithm allows a user to reconstruct a 3D scene in real-time and robustly by moving the Microsoft Kinect sensor[3] around the real scene. Where SLAM techniques provide efficient camera tracking but only rudimentary reconstructions, Kinect Fusion's results possess both a high degree of robustness and detail (see Figure 1 and Figure 2). A detailed explanation of Kinect Fusion's components and algorithm follows.

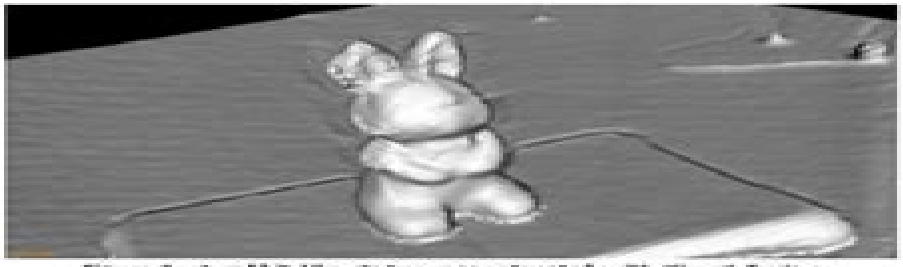

Figure 1 – A rabbit-like statue reconstructed with Kinect Fusion

[1] *KinectFusion: Real-Time Dense Surface Mapping and Tracking*
Richard A. Newcombe, Shahram Izadi, Otmar Hilliges, David Molyneaux, David Kim, Andrew J. Davison, Pushmeet Kohli, Jamie Shotton, Steve Hodges, and Andrew Fitzgibbon - October 2011 - IEEE ISMAR

[2] *KinectFusion: Real-time 3D Reconstruction and Interaction Using a Moving Depth Camera*
Shahram Izadi, David Kim, Otmar Hilliges, David Molyneaux, Richard Newcombe, Pushmeet Kohli, Jamie Shotton, Steve Hodges, Dustin Freeman, Andrew Davison, and Andrew Fitzgibbon - October 2011 - ACM Symposium on User Interface Software and Technology

[3] http://en.wikipedia.org/wiki/Kinect

Kinfu An Open Source Implementation Of Kinect Fusion

Robert R. Redfield

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