

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

Michele Pirovano
PhD student in Computer Science at POLIMI
Research fellow at UNIMI

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 sensor³ 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.

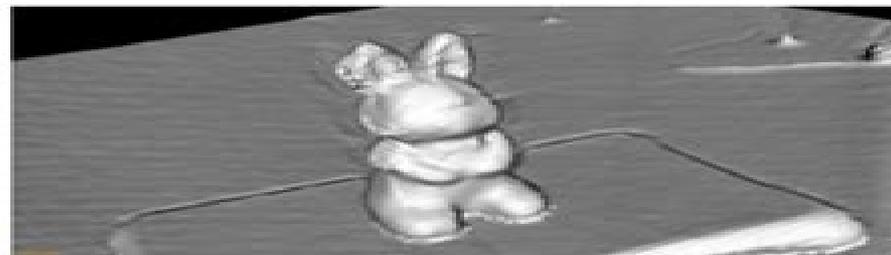


Figure 1 - A rabbit-like statue reconstructed with Kinect Fusion

¹ KinectFusion: Real-Time Dense Surface Mapping and Tracking

Richard A. Newcombe, Shih-Wei Lee, Otmar Hilliges, David Moyniaux, 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

Shih-Wei Lee, David Kim, Otmar Hilliges, David Moyniaux, 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>

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