

Homework 3 Writeup

Instructions

- Provide an overview about how your project functions.
- Describe any interesting decisions you made to write your algorithm.
- Show and discuss the results of your algorithm.
- Feel free to include code snippets, images, and equations.
- List any extra credit implementation and result (optional).
- Use as many pages as you need, but err on the short side.
- **Please make this document anonymous.**

Project Overview

When I increased the number of samples to try in RANSAC, the result got better. This is obvious because I randomly pick 8 points in RANSAC and if I try the random selections more often, there's more chance that I find a line that contain more inliers with fixed constraint.

Implementation Detail

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Result

1. Used 25000 key points. (Figure 1)
2. There's a bunch of wrong points at specific area, along x-z plane. I think it's because my F matrix isn't accurate enough.

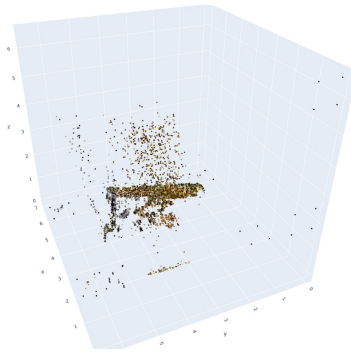


Figure 1: 3D reconstruction using 25000 key points

Extra Credit (Optional)