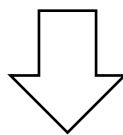
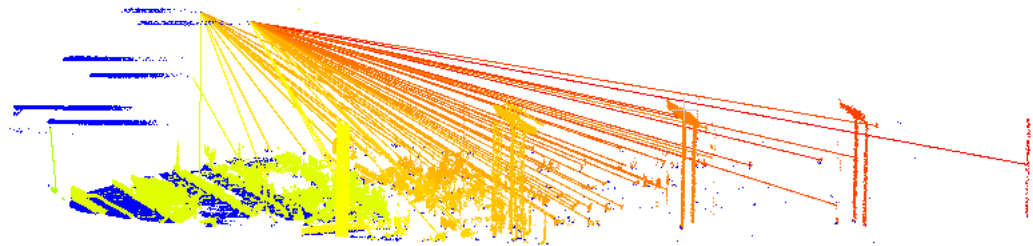


项目任务

- 写一个功能模块，实现将pcd点云转化成图片
- 输入： pcd点云文件； 参数（前后正视、顶视、左右侧视、鸟瞰多角度）
- 输出：
 1. 根据参数要求，输出规定角度的图片（前后正视、顶视、左右侧视、鸟瞰多角度）
 2. 45度鸟瞰视角下，生成旋转的GIF图片
- 工作环境要求： Ubuntu18.04, Nvidia Jeston Nano, c++

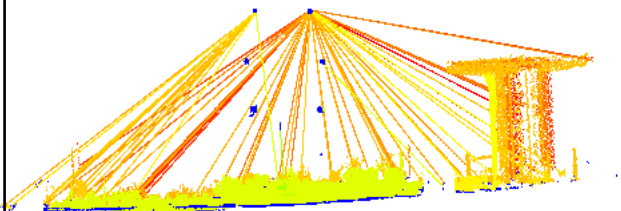
标准视图输出示例

PCD点云文件

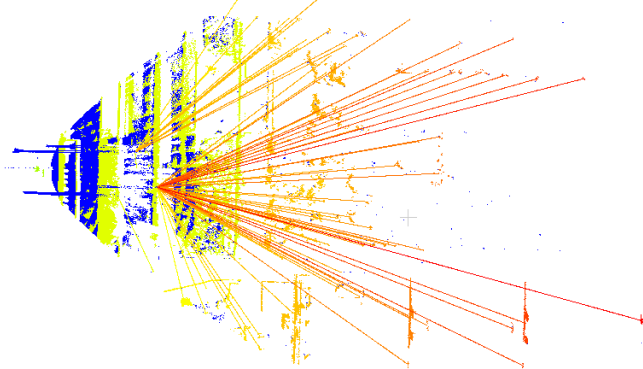


输出5个视图的图片

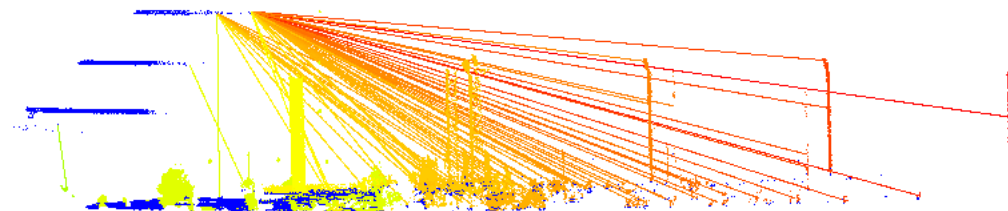
前视图



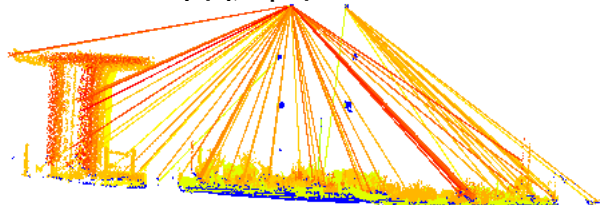
上视图



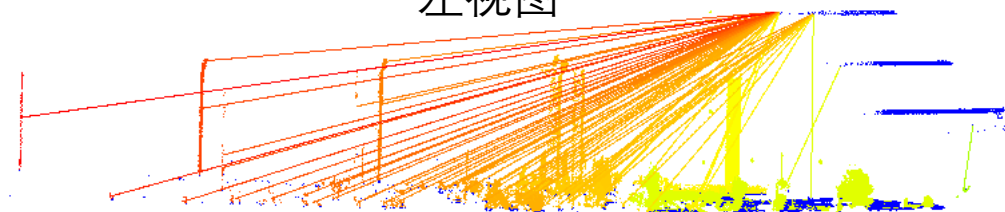
右视图



后视图

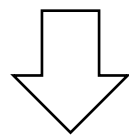
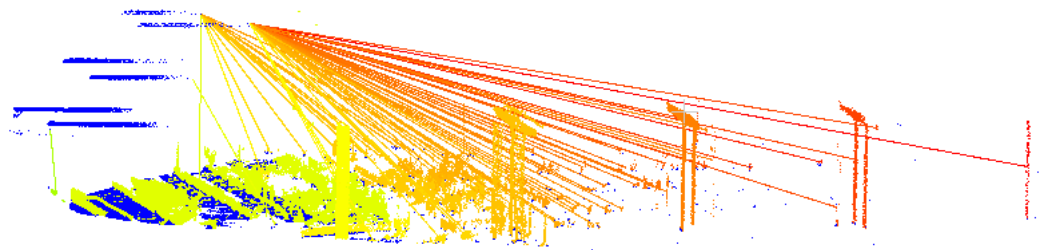


左视图

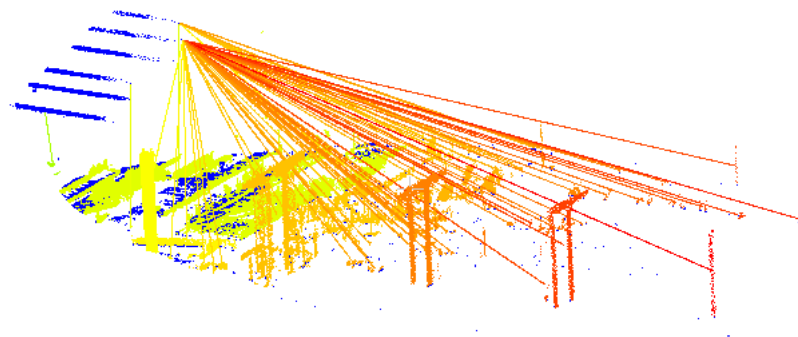
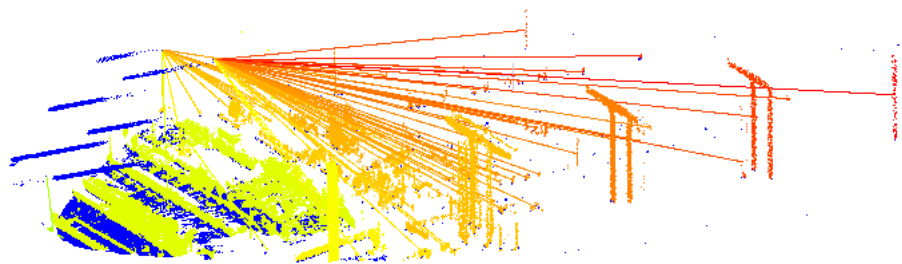


鸟瞰图输出示例

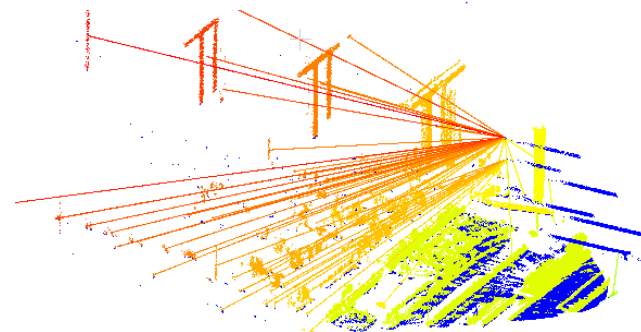
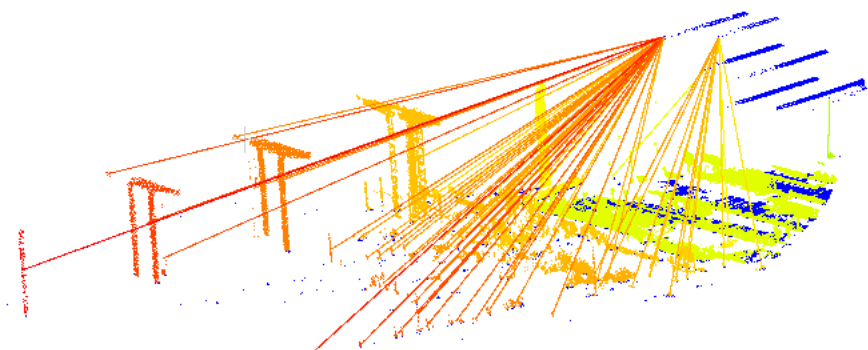
PCD点云文件



输出5个视图的图片

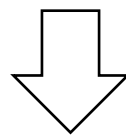
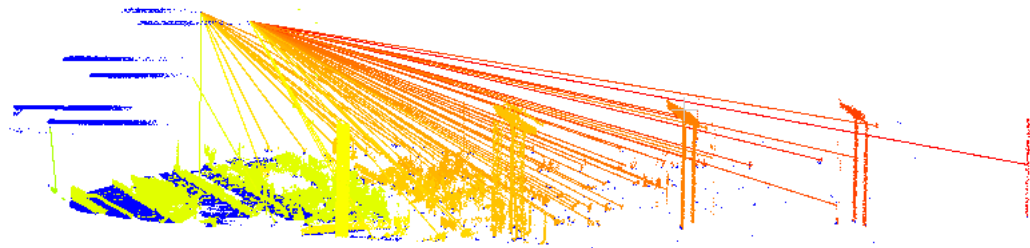


多个角度的鸟瞰图输出



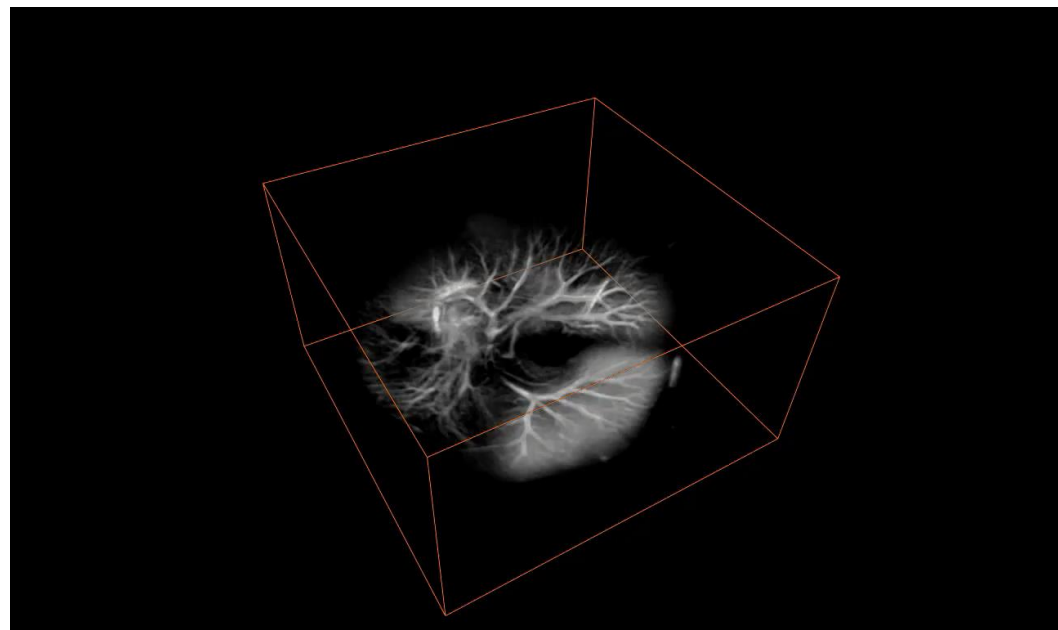
鸟瞰图GIF输出示例

PCD点云文件



输出GIF图

从鸟瞰图视角输出类似如下效果的GIF图片



参考：点云转图片

① 点云数据详解——点云数据变为图像

https://blog.csdn.net/qq_42233538/article/details/98346704?spm=1001.2101.3001.6650.1&utm_medium=distribute.pc_relevant.none-task-blog-2%7Edefault%7EBlogCommendFromBaidu%7ERate-1-98346704-blog-126909600.pc_relevant_vip_default&depth_1-utm_source=distribute.pc_relevant.none-task-blog-2%7Edefault%7EBlogCommendFromBaidu%7ERate-1-98346704-blog-126909600.pc_relevant_vip_default&utm_relevant_index=2

② 用c++ PCL库和Opencv库实现将点云数据转化成图片形式

https://blog.csdn.net/Jumping_Pig/article/details/126909600

③ PCL 点云转彩色图像

https://blog.csdn.net/qq_36686437/article/details/121878412

参考：多个图片转GIF

① <https://blog.csdn.net/aoshilang2249/article/details/38903057>