# Floorplan Priors for Joint Camera Pose and Room Layout Estimation

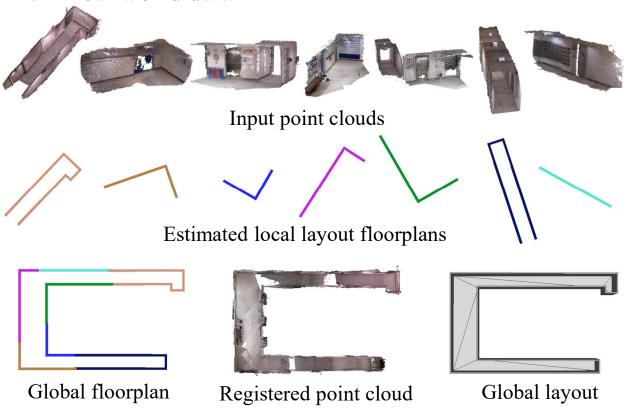
## Supplementary Material

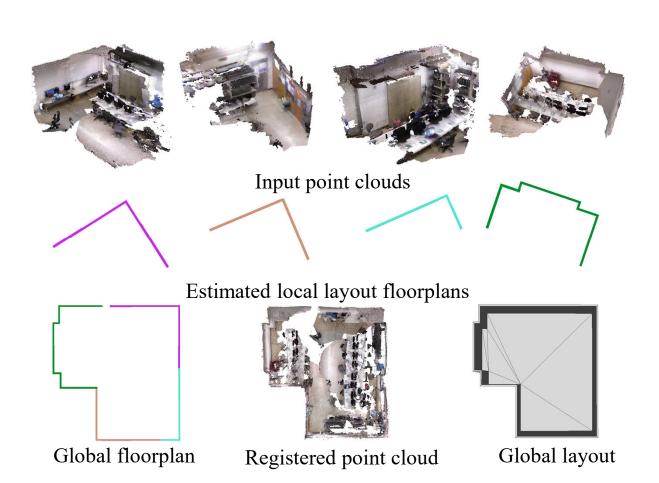
We provide the results from our algorithm for 21 scenes with totally 100 partial fragments. The inputs of the results include real world scanned data, synthetic scanned data, real world RGB-D images and synthetic RGB-D images.

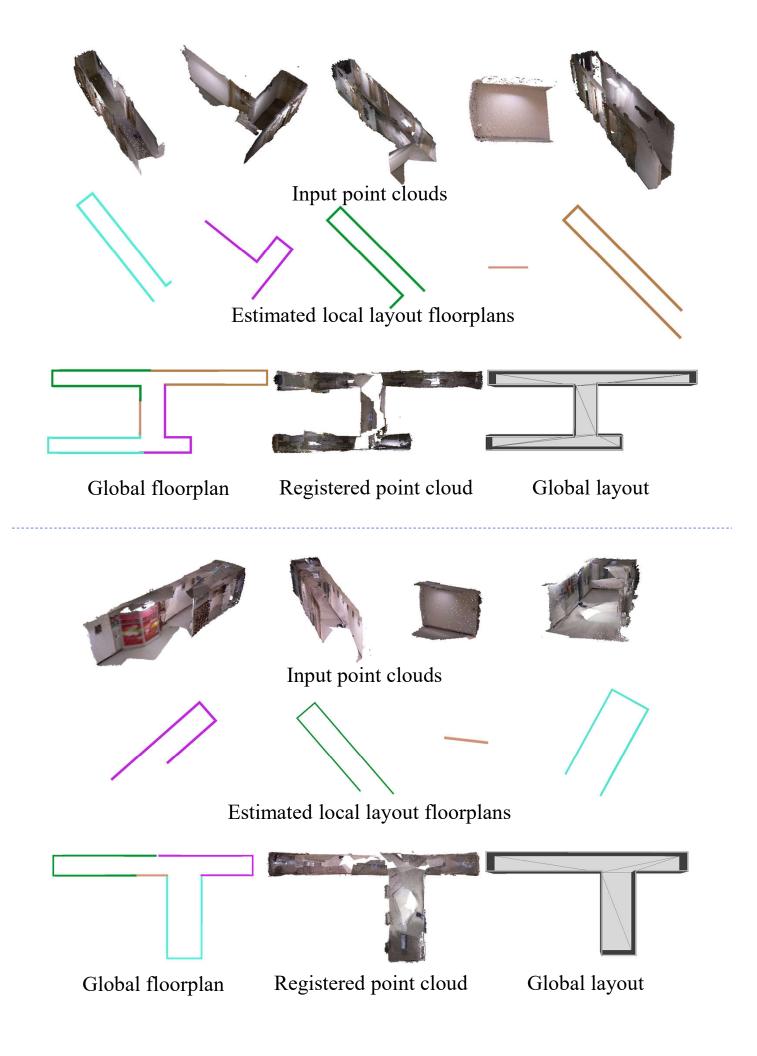
We show the results in four aspects: (1) Estimated local layout for each partial data; (2) estimated global floorplan from the combination of the local floorplans; (3) registered point cloud using estimated camera poses; (4) reconstructed global layout model.

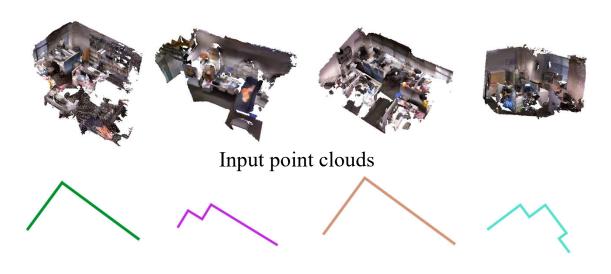
# 1. Results from partial scans

1.1 Real world data



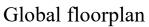






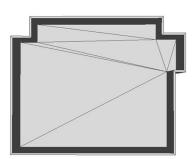
Estimated local layout floorplans







Registered point cloud



Global layout





Input point clouds









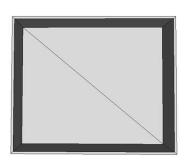
Estimated local layout floorplans



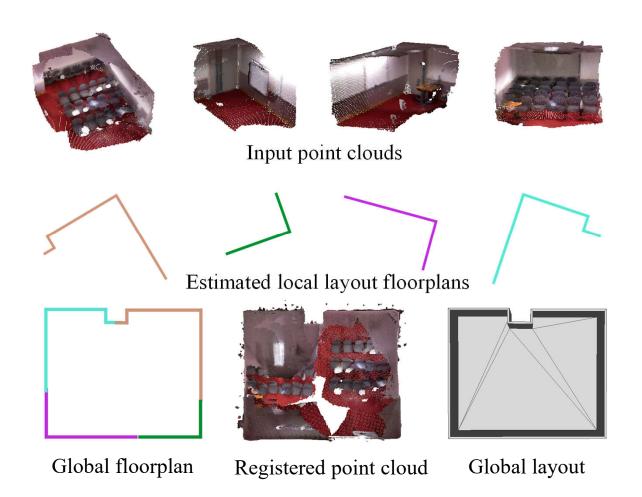
Global floorplan

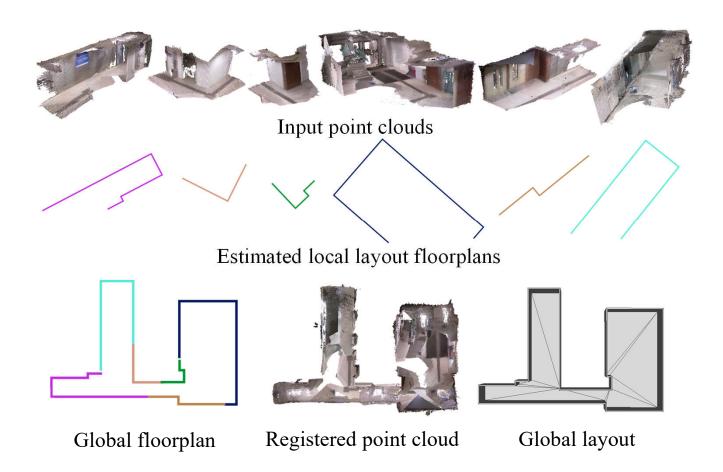


Registered point cloud

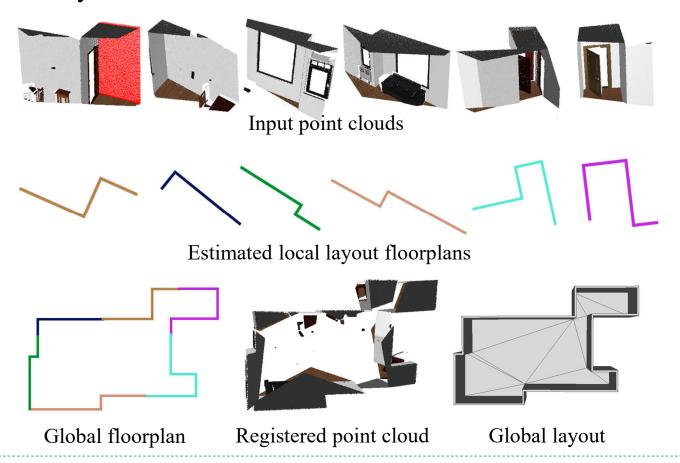


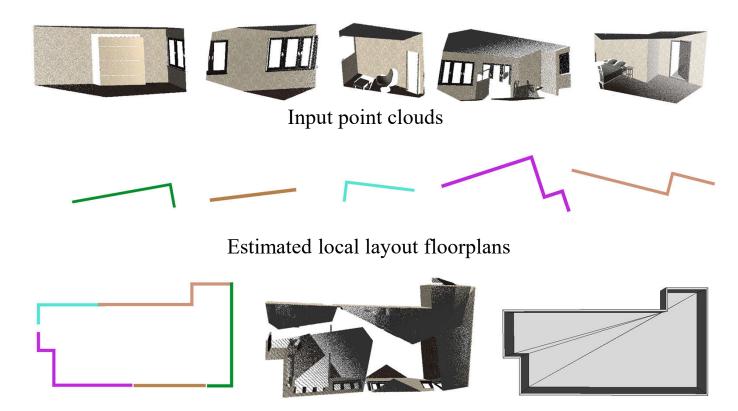
Global layout





# 1.2 Synthetic data





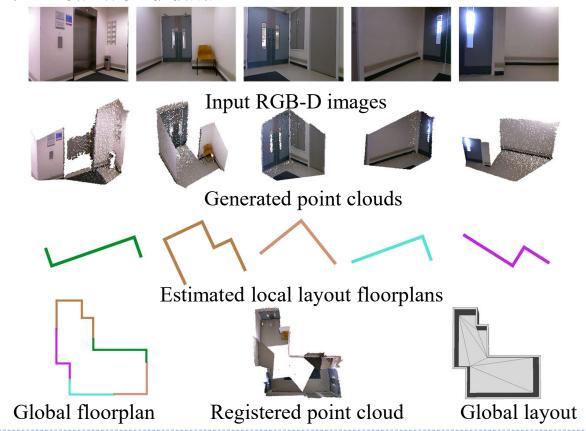
Global floorplan

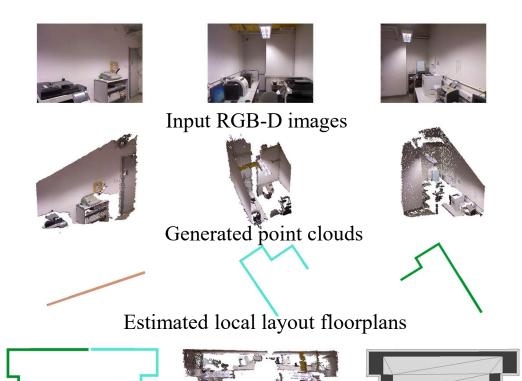
Registered point cloud

Global layout

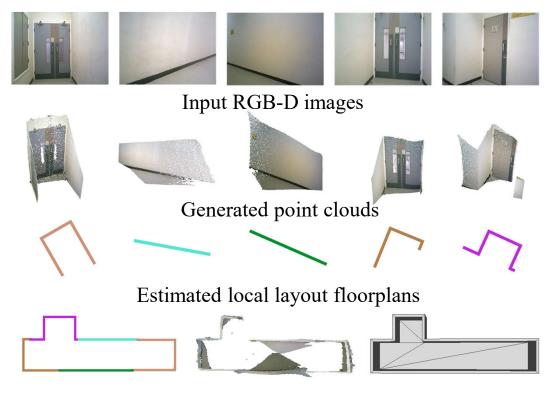
### 2. Results from RGB-D images

#### 2.1 Real world data





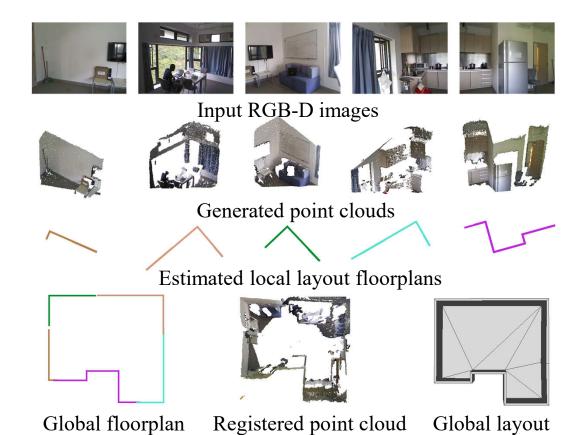
Global floorplan Registered point cloud Global layout

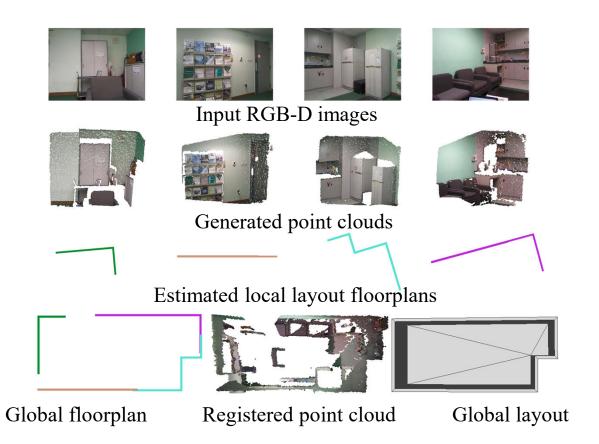


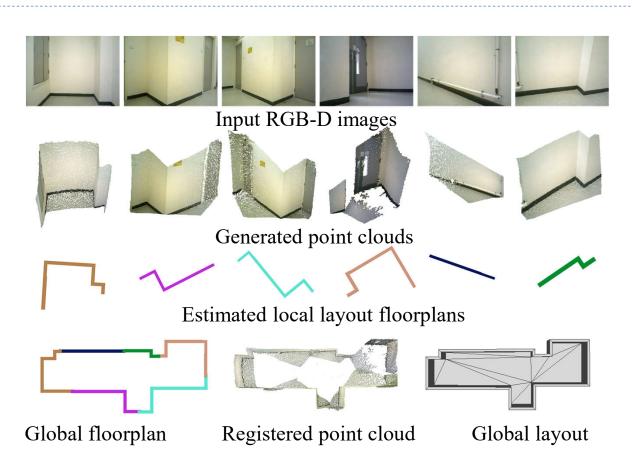
Global floorplan

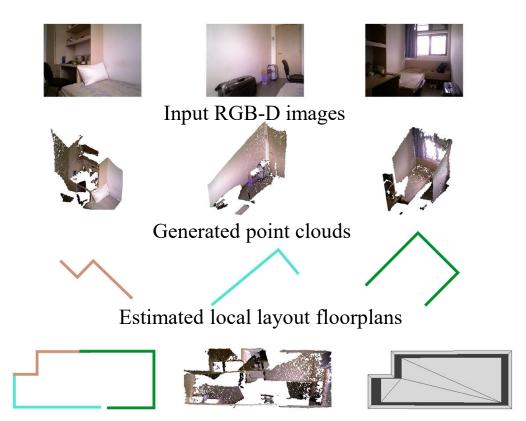
Registered point cloud

Global layout



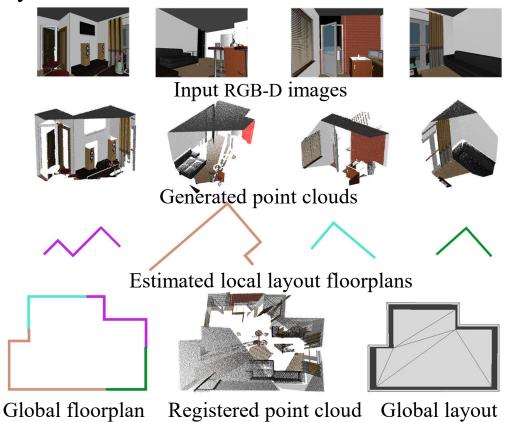


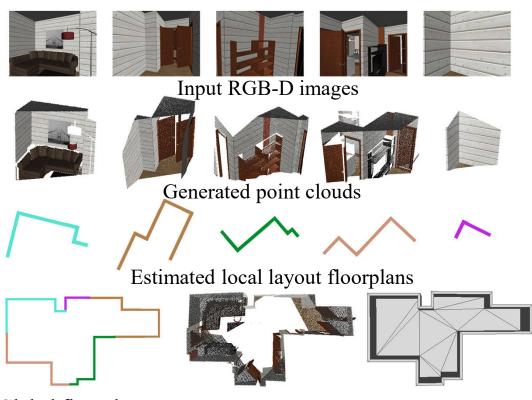




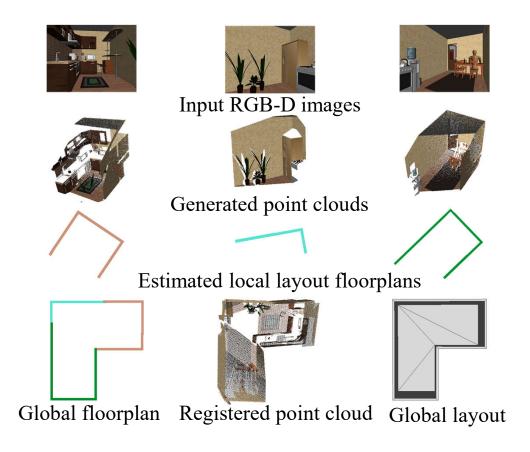
Global floorplan Registered point cloud Global layout

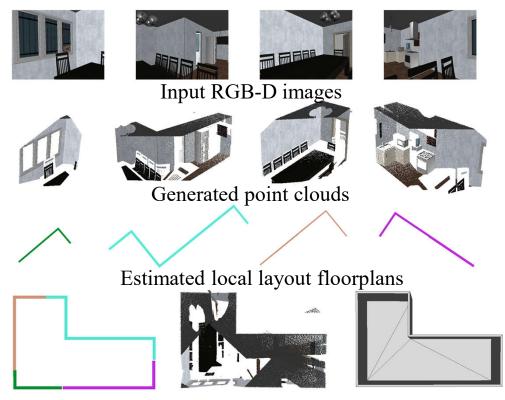
### 2.2 Synthetic data





Global floorplan Registered point cloud Global layout





Global floorplan Registered point cloud Global layout