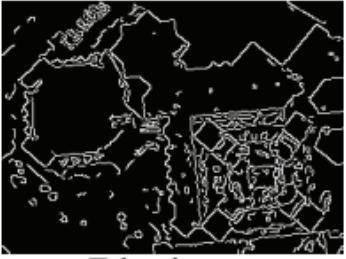
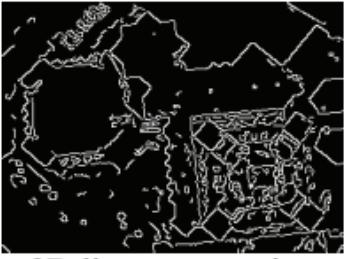


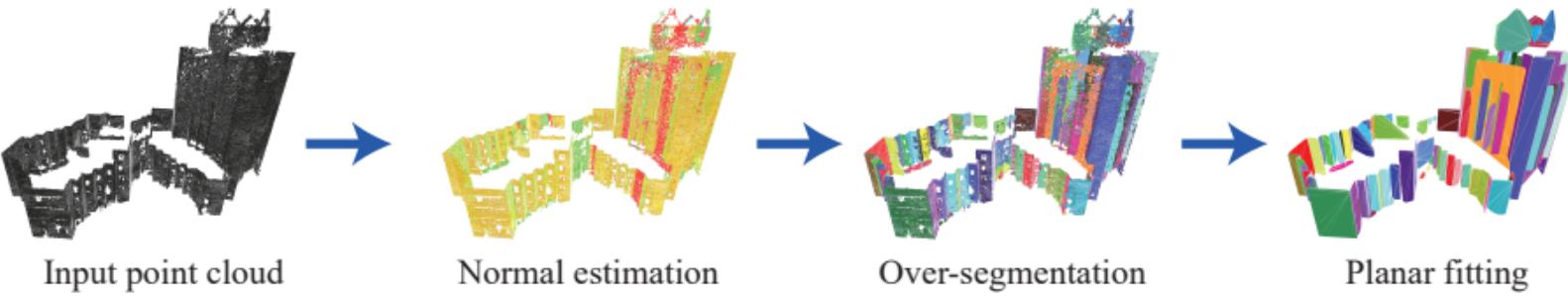
Input overhead image



Edge image



2D line presentation

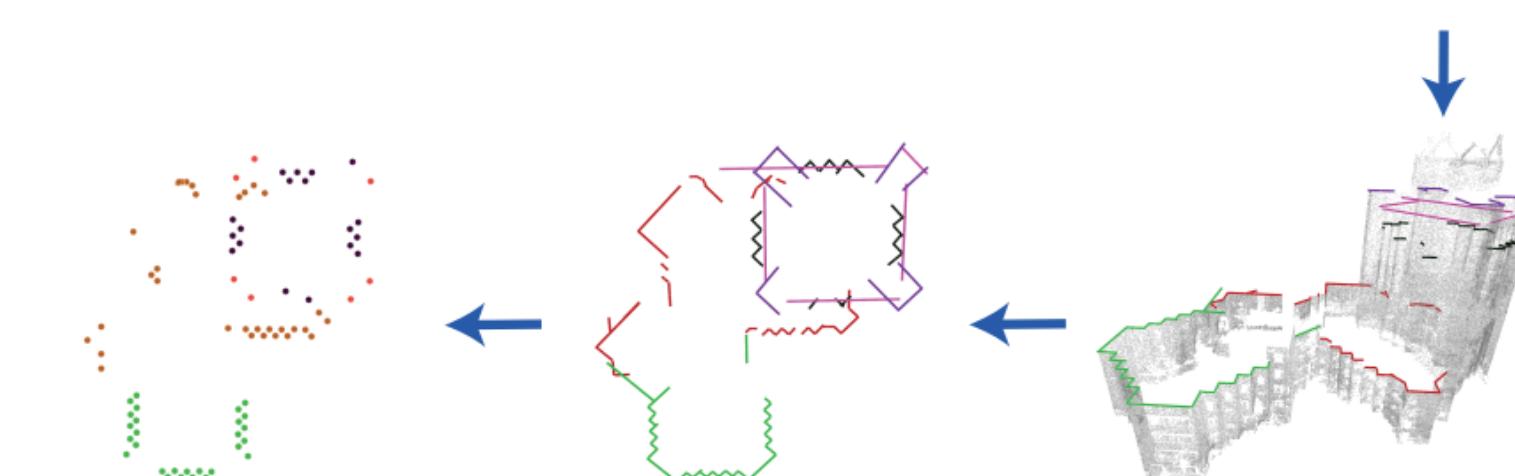


Input point cloud

Normal estimation

Over-segmentation

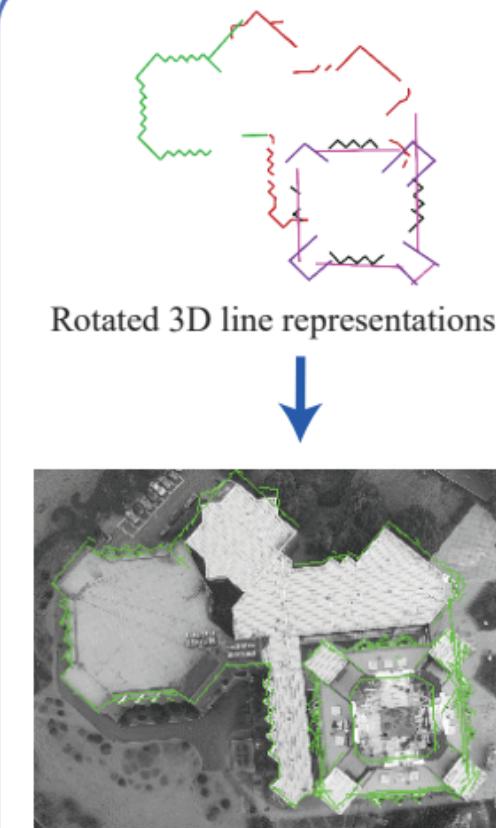
Planar fitting



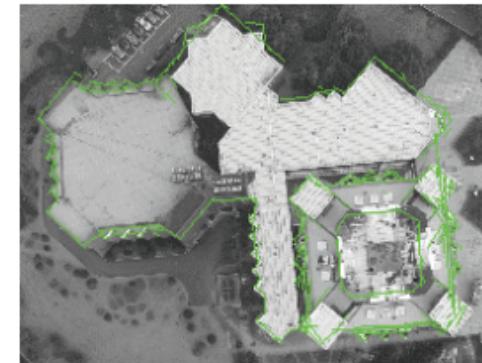
Multi-layer 3D feature points

Multi-layer 3D line presentations

Multi-layer projection



Rotated 3D line representations



Alignment results