Depth prediction module

Predicted Depths

Input Images

Multi-view feature extractor

Multi-view feature extractor

Multi-view feature extractor

Voxel grid prediction network

Voxel grid prediction network

Voxel grid prediction network

Probabilistic voxel grid merging

Neural Renderer

Neural Renderer

Neural Renderer

B1

B2

B3

GCN1

GCN2

GCN3

Output Mesh

Multi-view voxel grid prediction module

Mesh refinement module