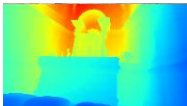
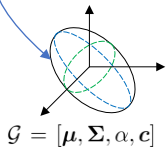


Hybrid Implicit-explicit Space

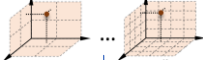


Posed RGB-D

Explicit Branch



Implicit Branch



Tri-plane
Feature

Position
Encoding



Color Decoder

RGB

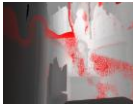


Geo Decoder

SDF

Hierarchical Uncertainty Map Construction

Explicit Branch

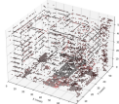


Depth Uncert

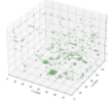


RGB Uncert

Implicit Branch

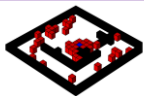


Implicit Uncert

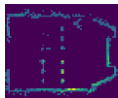


SDF Uncert

Next-Best-View Searching



Candidates Sampling



Occupancy Map

State Evaluation

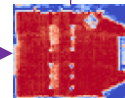
Information Weighting

NBV Reward

Safety Calculation

Agent Action

RRT



Hybrid Risk Filed

Joint Optimization

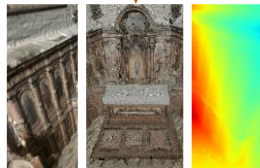
View-aware Keyframe Selection

Sliding Window Management

Explicit Loss

Implicit Loss

BA Optimization



Mesh / Gaussian Map / Depth