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stride size s

window size u

Pyramid structure of our HBA. In bottom-up process, frames within the same local window are optimized by BA to create a keyframe for the next Top: system workflow. Bottom: final factor graph. layer. In top-down process, adjacent frames in the same layer are connected by factors obtained from the bottom-up BA.

 \mathbf{x}_{1}^{1} \mathbf{x}_{2}^{1} \mathbf{x}_{3}^{1} \mathbf{x}_{4}^{1} \mathbf{x}_{5}^{1} \mathbf{x}_{6}^{1} \mathbf{x}_{7}^{1} \mathbf{x}_{8}^{1} \mathbf{x}_{9}^{1} \mathbf{x}_{10}^{1} \mathbf{x}_{11}^{1} \mathbf{x}_{12}^{1} \mathbf{x}_{13}^{1} \mathbf{x}_{14}^{1} \mathbf{x}_{15}^{1} \mathbf{x}_{16}^{1} \mathbf{x}_{17}^{1} \mathbf{x}_{18}^{1} \mathbf{x}_{10}^{1} \mathbf{x}_{10}^{1} \mathbf{x}_{11}^{1} \mathbf{x}_{12}^{1} \mathbf{x}_{13}^{1} \mathbf{x}_{14}^{1} \mathbf{x}_{15}^{1} \mathbf{x}_{16}^{1} \mathbf{x}_{17}^{1} \mathbf{x}_{18}^{1} \mathbf{x}_{10}^{1} \mathbf{x}_{10}^{1} \mathbf{x}_{11}^{1} \mathbf{x}_{12}^{1} \mathbf{x}_{13}^{1} \mathbf{x}_{14}^{1} \mathbf{x}_{15}^{1} \mathbf{x}_{16}^{1} \mathbf{x}_{17}^{1} \mathbf{x}_{18}^{1} \mathbf{x}_{10}^{1} $\mathbf{x}_$



Closure of the gap on KITTI dataset using initial trajectories with and without loop closure. The main gaps are detailed by white dashed rectangles

Refinement of point cloud map on self-collected solid-state LiDAR dataset. The initial trajectories are not loop closured. Top: cluttered indoor laboratory. Bottom: unstructured outdoor park.