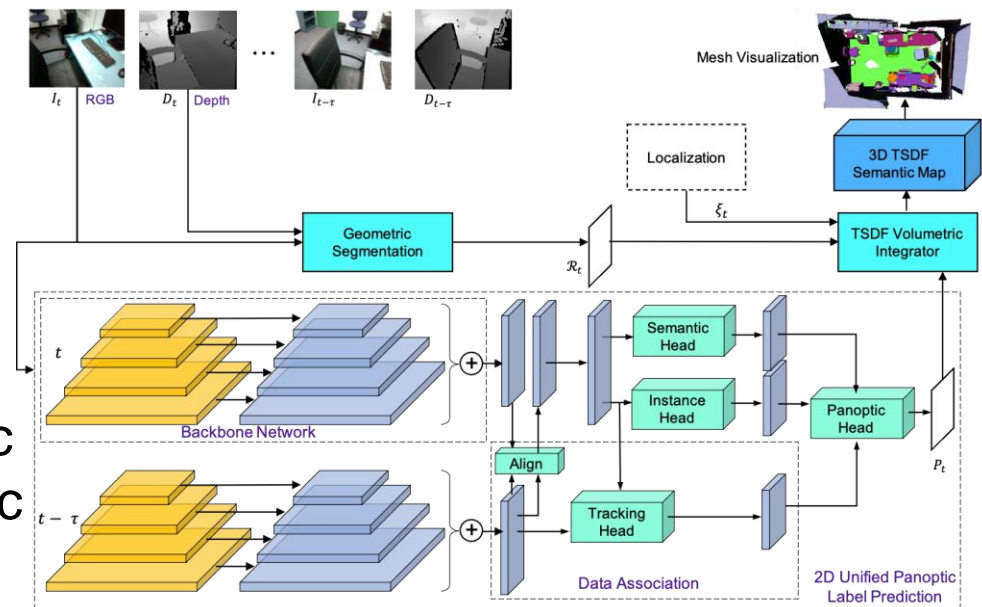


TUPPer-Map: Temporal and Unified Panoptic Perception for 3D Metric-Semantic Mapping

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- Unify semantic segmentation and instance segmentation into a single network for metric-panoptic mapping
- First work to leverage DNN-based data association for tracking object instances in mapping
- First work to explore volumetric map pruning based on panoptic label
- Evaluate the performance on the SceneNN, ScanNet v2 and Cityscapes-VPS datasets



Overview of the TUPPer-Map