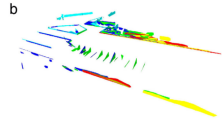
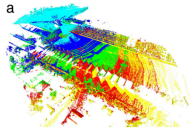
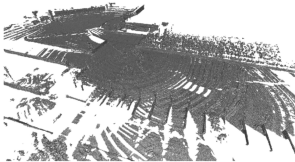


# Incremental Scenario Representations for Autonomous Driving using Geometric Polygonal Primitives

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- ▶ An incremental 3D representation from 3D range measurements
- ▶ Macro scale polygonal primitives vs. micro scale primitives (not compact)
- ▶ Motivation:
  - ▶ Processing large amounts of 3D data
  - ▶ Large number of well defined geometric structures
- ▶ Reconstruction of large scale scenarios
- ▶ Update of geometric polygonal primitives over time with fresh sensor data
- ▶ Accurate, compact, and efficient descriptions of the scene
- ▶ Evaluated on a data-set from MIT, taken from their participation in the DARPA Urban Challenge