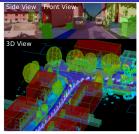
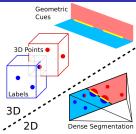
## Semantic Instance Annotation of Street Scenes by 3D to 2D Label Transfer J. Xie, M. Kiefel, M. Sun, A. Geiger (CVPR 2016)





- Motivation for 3D to 2D Label Transfer:
  - Objects often project into several images of the video sequence, thus lowering annotation efforts considerably.
  - 2D instance annotations are temporally coherent as they are associated with a single object in 3D
  - ▶ 3D annotations might be useful by themselves for reasoning in 3D or to enrich 2D annotations with approximate 3D geometry

## Contributions:

- Present a novel geo-registered dataset of suburban scenes recorded by a moving platform
- Provides semantic 3D annotations for all static scene element
- Proposes a method transfer these labels from 3D into 2D, yielding pixelwise semantic instance annotations
- ▶ The dataset comprises over 400k images and over 100k laser scans