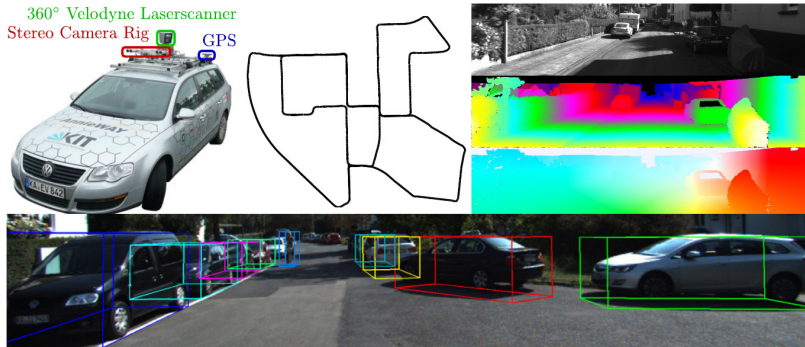


Are we ready for Autonomous Driving? The KITTI Vision Benchmark Suite

A. Geiger, P. Lenz and R. Urtasun (CVPR 2012)



- ▶ Autonomous driving platform equipped with video cameras, Velodyne scanner & GPS
- ▶ Goal: provide novel benchmarks for several tasks
 - ▶ Stereo & optical flow: 389 image pairs
 - ▶ Stereo visual odometry: sequences of 39.2 km total length
 - ▶ 2D & 3D object detection: vehicles, pedestrians, cyclists (> 200k annotations)
- ▶ Online evaluation server (held-out test ground truth)
- ▶ Conclusions: novel challenges and ranking compared to lab conditions (e.g., Middlebury)