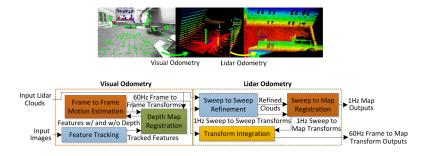
Visual-lidar Odometry and Mapping: Low-drift, Robust, and Fast J. Zhang and S. Singh (ICRA2015)



- Combining visual and lidar odometry in a fundamental and first principle method
- Visual odometry to estimate the ego-motion and to register point clouds from a scanning lidar at a high frequency but low fidelity
- Scan matching based lidar odometry to refine the motion estimation and point cloud registration simultaneously
- Ranking first on the KITTI odometry benchmark
- Further experiments with a wide-angle camera and a fisheye camera
- Robust to aggressive motion and temporary lack of visual features