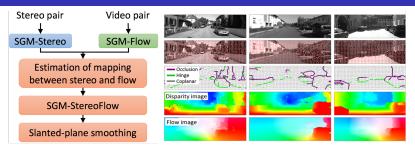
## Efficient Joint Segmentation, Occlusion Labeling, Stereo and Flow Estimation K. Yamaguchi, D. McAllester, R. Urtasun (ECCV 2014)



Existing slanting plane methods involved time-consuming optimization algorithms

## Contributions:

- Exploits the fact that in autonomous driving scenarios most of the scene is static
- New SGM algorithm based on the joint evidence of the stereo and video pairs
- New fast block-coordinate descent form of inference algorithm on a total energy involving the segmentation, slanted planes and occlusion labeling
- Evaluates on stereo and flow KITTI benchmarks
- Order of magnitude faster than competing approaches