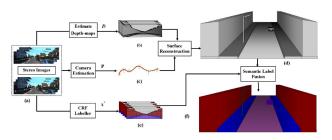
Urban 3D Semantic Modelling Using Stereo Vision S. Sengupta, E. Greveson, A. Shahrokni and P. H. S. Torr (ICRA 2013)



- Efficient and accurate dense 3D reconstruction with associated semantic labellings from street level stereo image pairs
- Using a robust visual odometry method with effective feature matching
- ▶ Depth-maps, generated from stereo, are fused into a global 3D volume online
- ▶ Labelling of street level images using a CRF exploiting stereo images
- ▶ Label estimates are aggregated to annotate the 3D volume
- Evaluation on KITTI odometry dataset with manual annotation for object class segmentation