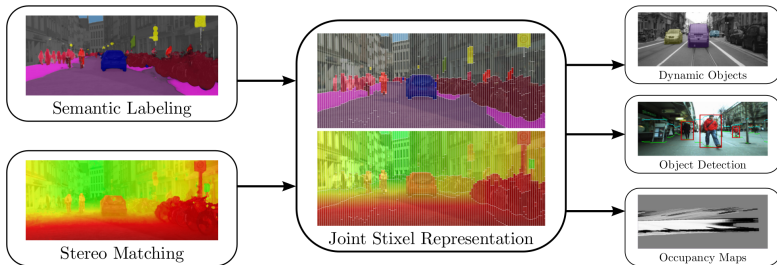# Semantic Stixels: Depth is Not Enough
L. Schneider, M. Cordts, T. Rehfeld, D. Pfeiffer, M. Enzweiler, U. Franke, M. Pollefeys, and S. Roth (IV 2016)

- Joint inference of geometric and semantic layout of a scene using stixels
- Geometry as a dense disparity map (SGM)
- Semantics as a pixel-level semantic scene labelling (CNNs)
- Stixel representation with object class information
- Better than original Stixel model in terms of geometric accuracy
- Complexity (time): linear in the number of object classes (15 Hz on 2 MP images)
- Evaluated on the subset of KITTI 2012 annotated semantically, KITTI 2015 (only disparity), Cityscapes (only semantics)