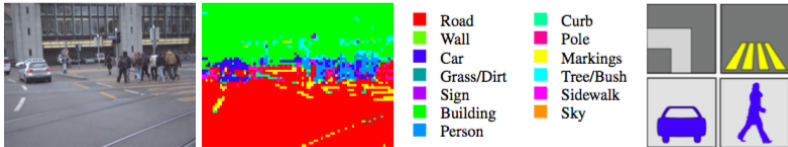


Segmentation-Based Urban Traffic Scene Understanding

A. Ess, T. Muller, H. Grabner, L. V. Gool (BMVC 2009)



- ▶ Proposes a method to recognise the traffic scene in front of a moving vehicle with respect to the road topology and the existence of objects
- ▶ Contributions:
 - ▶ Uses a two-stage system, where the first stage abstracts the image by a rough super-pixel segmentation of the scene
 - ▶ Uses this meta representation in a second stage to construct features set for classifier that is able to distinguish between different road types as well as detect the existence of commonly encountered objects
 - ▶ Shows that by relying on an intermediate stage, can effectively abstract from peculiarities of the underlying image data
- ▶ Evaluates on two urban data sets, covering day light and dusk conditions