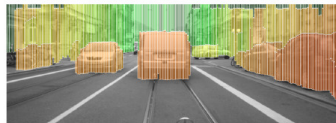


Stixmentation - Probabilistic Stixel based Traffic Scene Labeling

F. Erbs, B. Schwarz and U. Franke (BMVC 2012)



- ▶ Detection of moving objects from a mobile platform
- ▶ Multi-class (street, obstacle, sky) traffic scene segmentation approach based on Dynamic Stixel World, an efficient super-pixel object representation
- ▶ Each stixel assigned to a quantized maneuver motion or to static background
- ▶ Using dense stereo depth maps obtained by SGM
- ▶ Conditional Random Field using 3D and motion features and spatio-temporal prior
- ▶ Real-time performance and evaluated in various challenging urban traffic scenes