Dynamic 3D Scene Analysis from a Moving Vehicle B. Leibe, N. Cornelis, K. Cornelis, L. V. Gool (CVPR 2007)



- Presents an integrated system for dynamic scene analysis on a mobile platform
- Contributions:
  - Presents a multi-view/multi-category object detection module that can detect objects
  - Shows how knowledge about the scene geometry can be used to improve recognition performance and to fuse the outputs of multiple detectors
  - Demonstrates how 2D detections can be integrated over time to arrive at accurate 3D localization of static objects
  - In order to deal with moving objects, proposes a tracking approach which formulates the tracking problem as space-time trajectory analysis followed by hypothesis selection.
- Evaluates on 2 video sequence datasets introduced in the paper