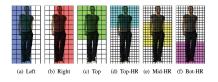
Monocular 3D Scene Understanding with Explicit Occlusion Reasoning C. Wojek, S. Walk, S. Roth and B. Schiele (CVPR 2011)



- Monocular 3D scene tracking-by-detection witch explicit object-object occlusion reasoning
- Tracking the complete scene rather than an assembly of individuals
- Extension of detection approaches HOG and DPM to enable the detection of partially visible humans
- Integration of the detections into a 3D scene model
- Full object and object part detectors are combined in a mixture of experts based on visibility
- Visibility is obtained from the 3D scene model
- More robust detection and tracking of partially visible pedestrians
- Evaluation on two challenging sequences ETH-Linthescher and ETH-PedCross2 recorded from a moving car in busy pedestrian zones