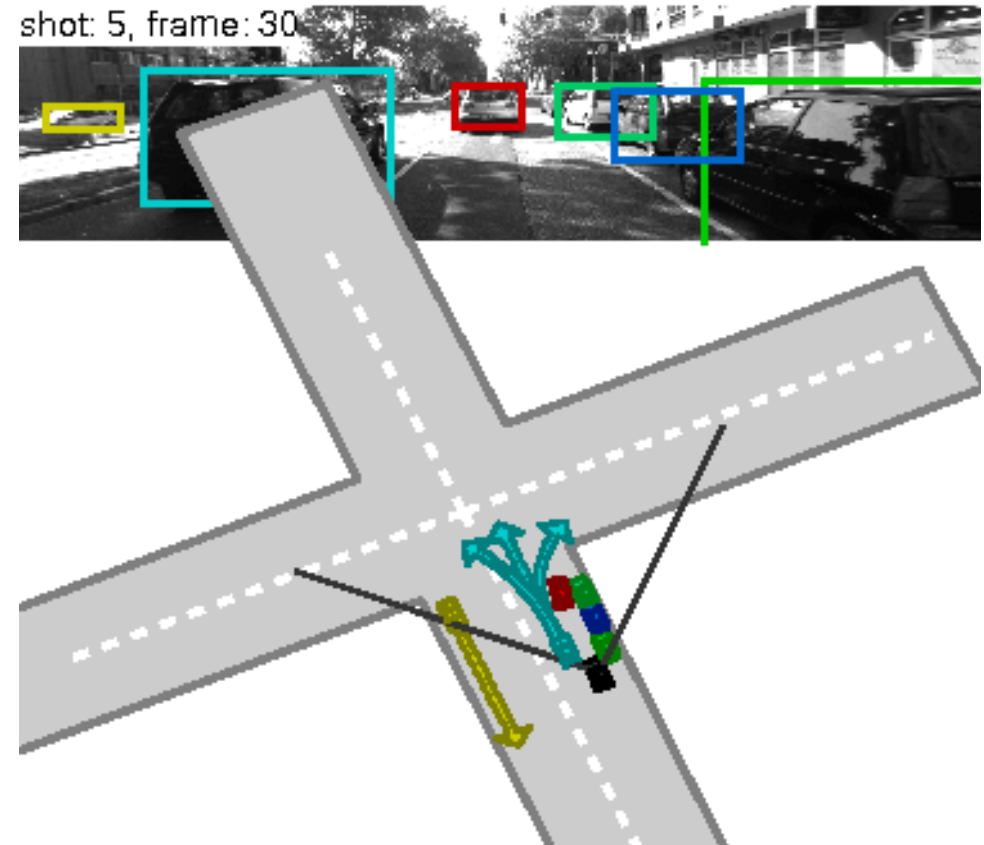
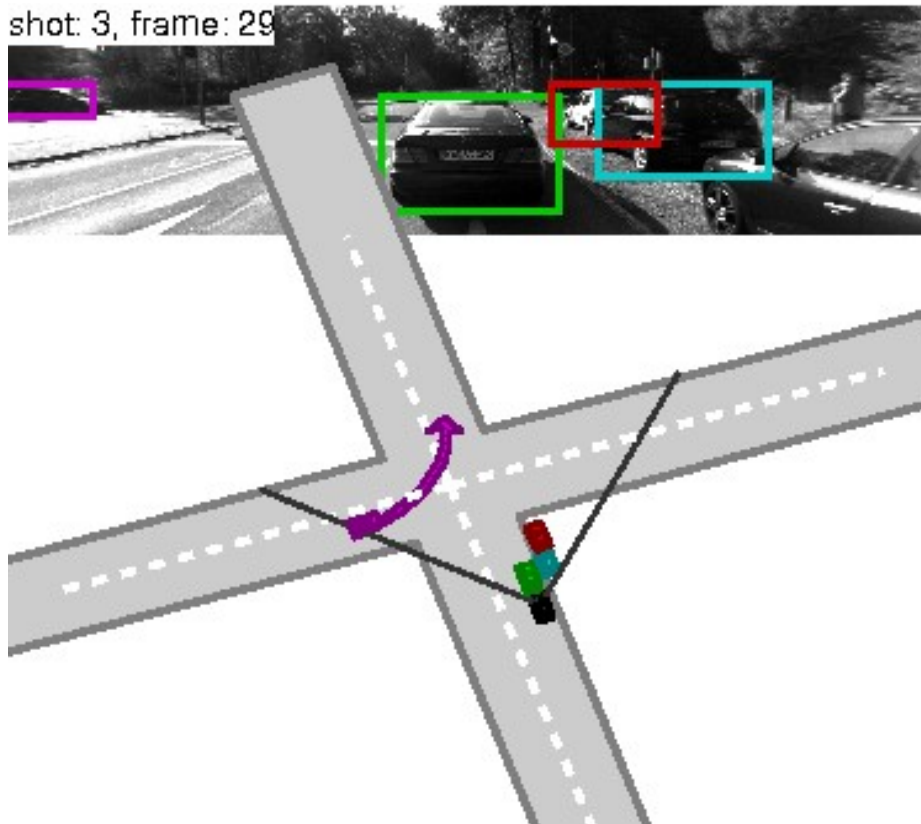


Work done

- Geiger PAMI 2014:
 - Combine various source of information to estimate Road geometry and traffic participants
- Wojek PAMI 2013: Use monocular cam with occlusion handling for pedestrian tracking.
- Brubaker CVPR 2013: Localizes traffic participants within a given map.
- Flint ICCV 2011: Uses manhattan world constraints to efficiently reconstruct indoors with monocular cam.
- Milan PAMI 2014: Uses Gaussian occlusion for differentiable objective function.

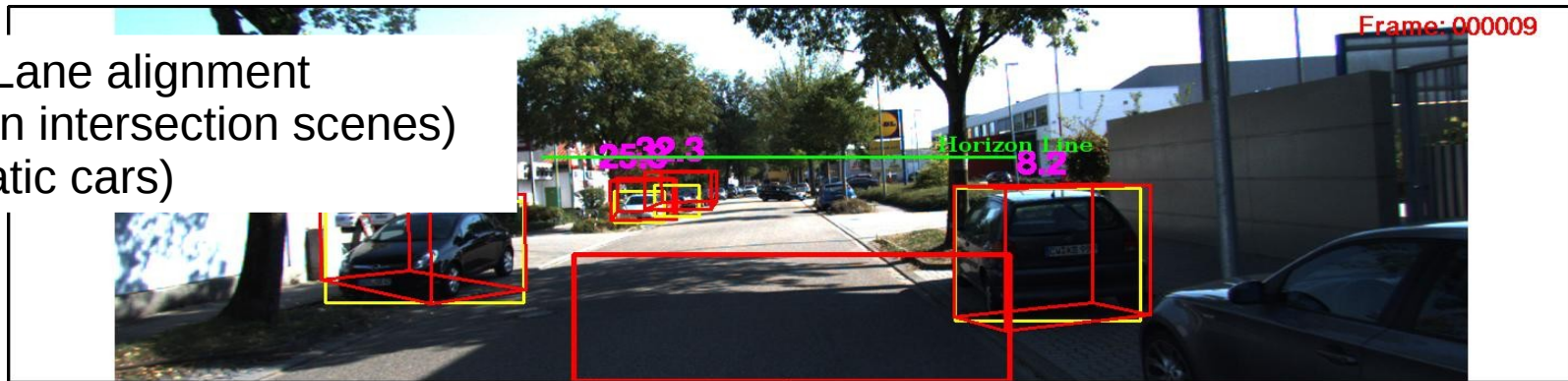
Work done

- Ran Geiger's code:
Observation: There are very few collisions in the results.

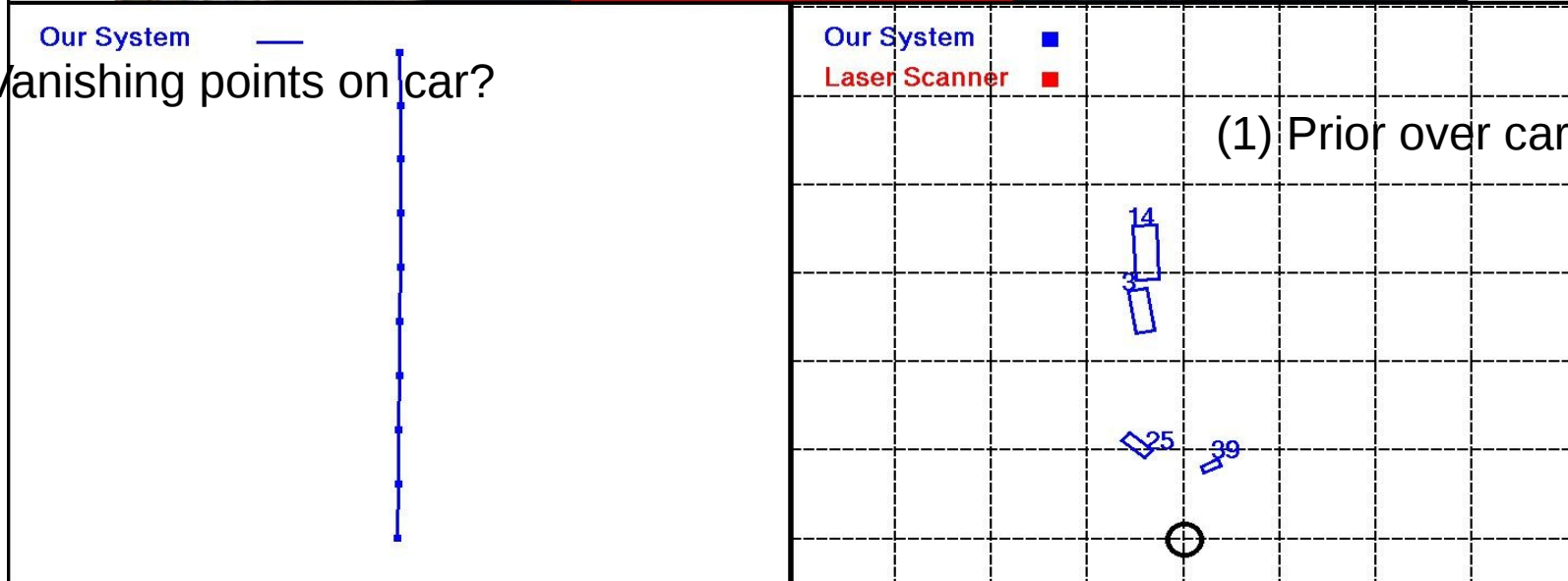


Possible heuristics to fix 3D localization

(2) Lane alignment
(non intersection scenes)
(static cars)



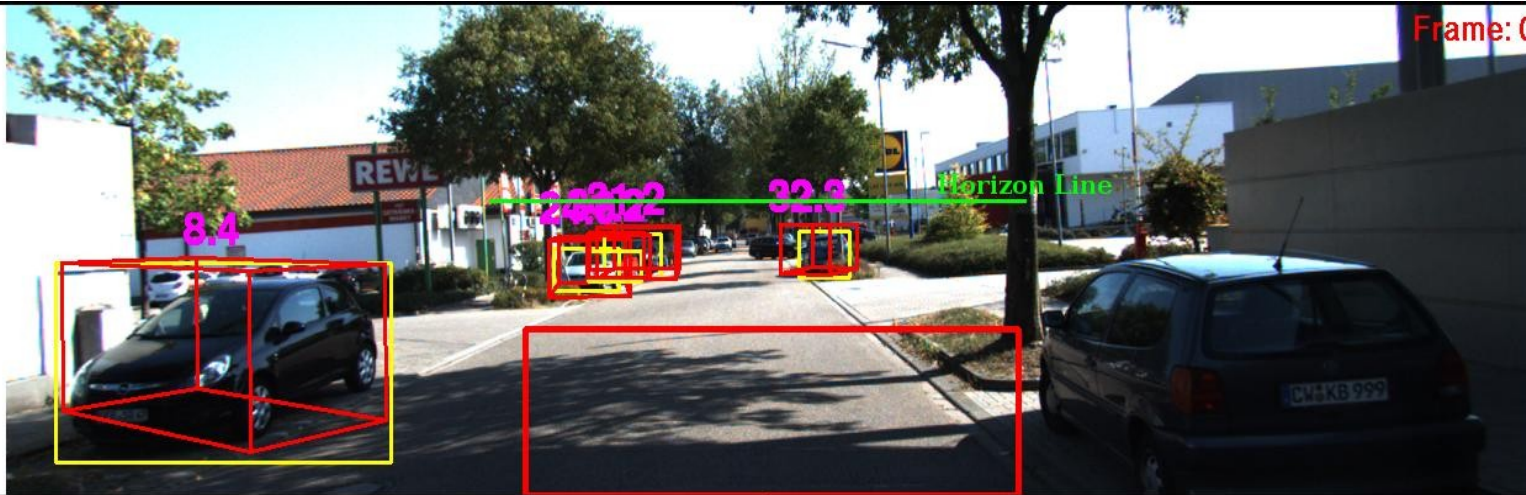
(3) Vanishing points on car?



Detector pose is not being used (0009)

- @manu

Frame: 000012



Our System



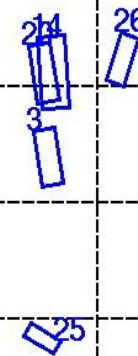
Our System



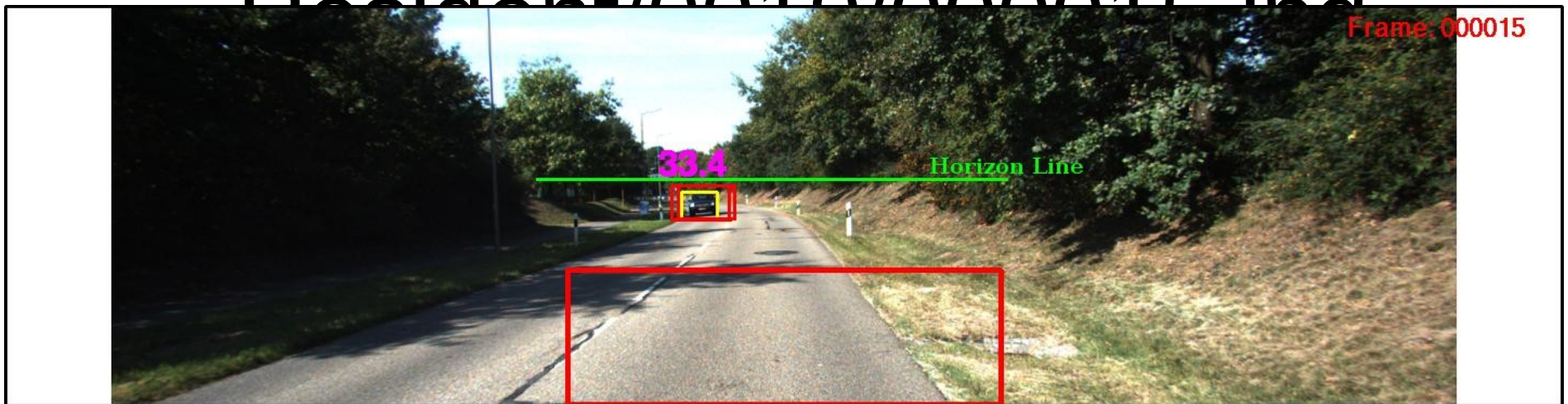
Laser Scanner



(4) No overlaps in bird eye view.



Resident/0010/000015.jpg



Our System



Our System



Laser Scanner



Holonomic constraint
Being violated

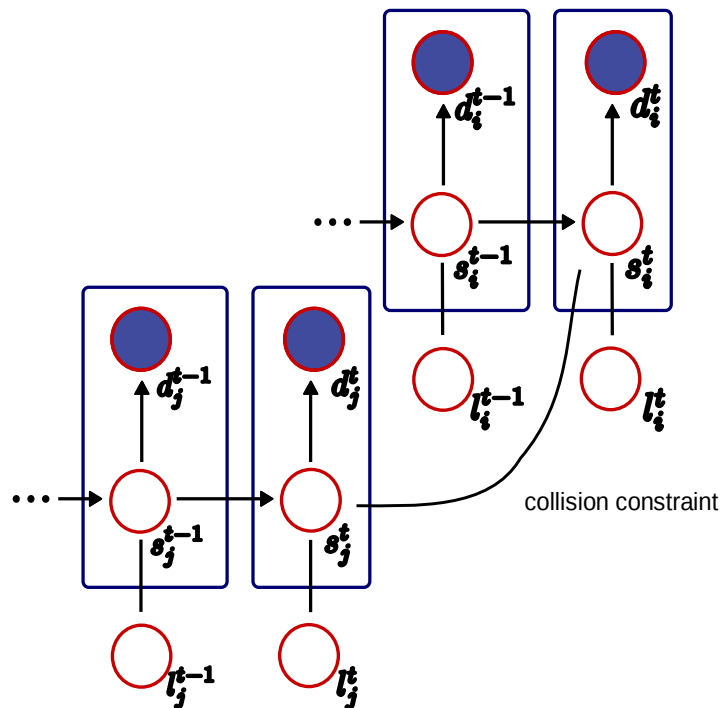
285



Plans

- Start with Geiger's model and assume lane geometry is given.

Our Model



Geiger's Model

