

Vehicle Trajectory Prediction based on Maneuver Recognition

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- Compute **safe** and **comfortable** trajectory for self driven vehicles.

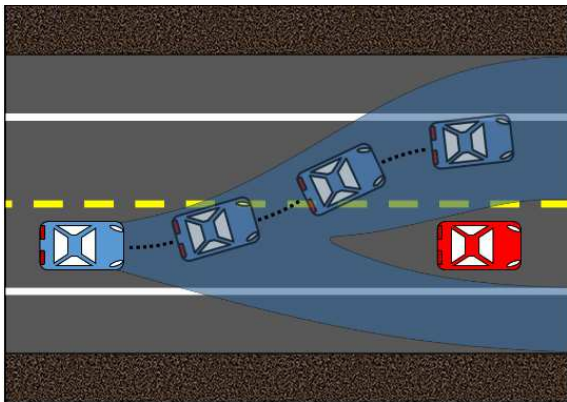


Figure: Possible trajectories for host vehicle¹

¹http://controlfreaks.mne.psu.edu/Research_IntelligentSystems.html

- Safety: Compute the occupancy prediction of other vehicles.

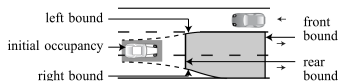


Figure: Occupancy prediction²

- Comfort: Predict other vehicle most probable trajectory.

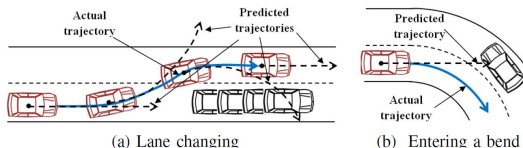


Figure: Possible vehicle trajectories³

² *Online Verification of Automated Road Vehicles Using Reachability Analysis*, M. Althoff et al., 2014

³ *Vehicle Trajectory Prediction based on Motion Model and Maneuver Recognition*, A. Houenou et al., 2013

Interested? Contact me!

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Thank you!