

# Auction-Based Strategy Planning for Cooperative Vehicles

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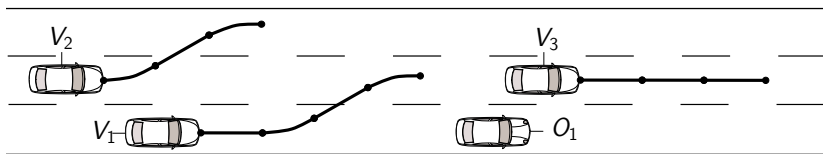
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# Cooperative Driving

Cooperative driving offers diverse benefits, e.g.:

- Improvement of traffic flow,
- Improvement of safety.



Cooperative vehicles must agree on a collaborative driving strategy  $\Rightarrow$  e.g. using auction-based algorithms.

# Topic: Auction-Based Strategy Planning for Cooperative Vehicles

The main principle of auctions:

- Some agents offer bids with distinct costs,
- Negotiation of bids takes place between all participants until agreement.

**Task:**

- Literature research to auction-based algorithms and their application in the field of cooperative driving,
- Evaluation and comparison of the different methods.