* What are the goals of an autonomous vehicle in a convoy?

Ensure the convoy’s safety, not deviate and arrive at the destination.

* What might it have to react to at short notice?

Able to perceive the surroundings in a short time, such as the humidity and roughness of the road surface, the obstruction and lightness, the speed and distance of the other vehicles.

Based on the collected information, quickly determine the method to avoid danger, calculate the route to leave and regroup, control the vehicle and track the path of the convoy.

* How we might express a vehicle’s rules for following the convoy while retaining its autonomy to react to situations?

1.Set the overall rule to follow the convoy. The leader car recommends the driving route, the current vehicle should reach the designated position.

2.Retain the decision-making right of each vehicle. When encountering obstacles, traffic rules and other driving issues, it is first to evade. In safe and common conditions, overtaking is prohibited.

3.Set a good negotiation strategy for each vehicle. When the designated route cannot be continued, apply for leaving the convoy and design a back route independently. If there is a vehicle need to insert into the convoy, judge whether it can insert and choose to decelerate or accelerate.