Rear-end crash

Lane change

Summary:

Traffic rule has a great impact on the efficiency and safety of a traffic system. Thus to build a model to evaluate the rule is of great importance. In most countries, there exists such a rule: unless overtaking another car, drivers are supposed to drive on the right-most lane. In our passage, we are trying to develop a model to evaluate this rule from two aspects: the traffic flow and the safety.

We construct a blank situation that is without the right-most rule. Using our model, we compare the safety and the traffic flow under the two situation, with the right-most rule and without the right-most rule.

As for traffic flow,

To evaluate this rule, we compare two situation: one is with the right-most rule, one is without this rule. There are two factor to take in: the traffic flow and the safety. We construct several model to evaluate this rule: the overtaking model, the rear-ended model. We use a coefficient \alpha as a safety factor. Then we study the traffic flow. There are several factors that influence the traffic flow:

The ….and the efficiency, which includes the overtaking possibility under several circumstances, and the …

Key: