Avoiding phantom jams in traffic

- Simulations with agent-based models

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Abstract

Det här är en sammanfattning. Test of reference to [2].

1 Driver model

Det här är en del om driver model. Test of reference to [1].

2 Methods to reduce jams

A technology to increase safety for drivers in traffic is Adaptive Cruise Control (ACC) which is the next generation of cruise control. This kind of system is able to measure the distance and speed to the car infront and then adapt the speed so a certain time gap is maintained between the cars. ACC is already commercially available on the market and there is much research going on to see the effect in traffic flow when more and more vehicles are equipped with this system [1].

References

[1] Jam-avoiding adaptive cruise control (acc) and its impact on traffic dynamics. In *Traffic and Granular Flow '05*, pages 633–643. Springer Berlin Heidelberg, 2007.

[2] Sugiyama et al. Traffic jam without bottlenecks. *New Journal of Physics*, 10(033001), 2008.