



## The reconstruction of vehicle trajectories with dynamic macroscopic data.



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In traffic engineering a lot of work is done with simulation models. One of the differences between macroscopic and microscopic models is the visualization of vehicle movements. Visualizations are a good method to see what is happening on a network. In this research several methods are developed which are able to reconstruct trajectories with dynamic macroscopic data. The best reconstruction is based on an interpolation of density. When density is known, speed can be calculated with a fundamental diagram. In this way speed can be calculated at any moment and location, which is used to reconstruct trajectories by calculating the distance traveled in a simulation step.

