

Numerical Simulation of Traffic Flow

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March 31, 2006

Abstract

Traffic Flow Problems had been studied since 1950. Several kind of models had been used but still some features of congested flow are not entirely well understood. In this talk we will present numerical results of traffic flow when second order macroscopic models are used. These models give place to a system of hyperbolic equations or advection-diffusion equations with some specific boundary and initial conditions. The set of equations being coupled and nonlinear pose a problem which must be solved by numerical means. Explicit finite difference methods as well as finite volume methods are used to approximate the solution.

References

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