README for "Heterogeneous Traffic Estimation with Particle Filtering" MATLAB source code

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1 License

2 Important settings of the numerical experiments

Detailed settings of the model parameters, space and time discretization (Δt and Δx), the initial and the boundary conditions can be found in the following reference:

S. Fan and D. Work. A heterogeneous multiclass traffic flow model with creeping. *SIAM Journal on Applied Mathematics*, 75(2):813–835, 2015

3 Running the code

1. Overtaking experiment: begin the particle filter and generate plots for the true state vs. the estimated state. Run the script

   `main_pf_creeping.m`

   with the setting $test = 1$.

2. Creeping experiment: begin the particle filter and generate plots for the true state vs. the estimated state. Run the script

   `main_pf_creeping.m`

   with the setting $test = 2$.