

Dimecres 20 de març del 2013, 10:00h

Aula C1/366 (UAB).

Principles of traffic macrosimulation.

ALEIX RUIZ DE VILLA

Transport Symulation Systems (TSS)

ABSTRACT:

We will explain the basic framework to model traffic simulation on networks (usually cities or high-ways), using a macro simulation point of view. These methodologies are adopted by many commercial simulation software and traffic engineering researches. The two main problems are:

- 1) Traffic assignment: given a OD matrix (how many cars go from and to a prescribed set of origins and destinations), which paths do drivers take?
- 2) Given a sample of traffic flows (real data), how to estimate its related OD matrix. These problems can be seen as discrete versions of some mass transportation problems.