

Käte Hamburger Kolleg: Cultures of Research
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Traffic as a Socio-Technical System: opportunities for AI

In this talk I will give an overview about traffic systems - with different perspectives (system view, agent view) - and introduce some concepts, what has been done, what I have done and how AI in general and multiagent systems in particular can contribute to improve urban mobility. In this context, interesting questions are: how can a microscopic, agent-based approach to modeling and simulation help decision-makers and traffic planners? How can new technologies, such as routing apps, microblogs, and context for prediction of patterns be incorporated to the past effort/agenda? How to integrate these techniques with existing traffic control (e.g., traffic signals)? How to most effectively use the internet of vehicles? In this talk I also cover some challenges and obstacles.