

Invitation to lecture series „Simulation Sciences“

Wednesday, June 22th 2016, Room 0.101, Institute for Computer Science, University of Göttingen, 4:15 pm

Prof. Dr. Thomas S. Spengler
**Institute for Automotive Management and Industrial
Production, Braunschweig University of Technology**

will talk about

**Simulation-based impact assessment and strategy
development in the automotive sector**

Content of the lecture:

Electric vehicles are often seen as a promising way for rationalizing the use of fossil energy and cutting down greenhouse gas emissions in the automotive sector. So far, however, the market success of electric vehicles and thus their impact on reducing fossil fuel consumption and greenhouse gas emissions are rather limited. In this talk, the automotive market simulator (AMaSi) is introduced, which combines system dynamics and agent-based simulation to analyze the leverage of manufacturers and policy to support the market diffusion of electric vehicles. Based on real-world data the model is applied to the German car market and different manufacturer and policy measures are simulated, including the currently discussed purchase premium for battery and plug-in hybrid electric vehicles. Additionally, validation issues are discussed when modeling the structure of complex socioeconomic/-technic systems and simulating their behavior.

Guests are welcome.

The lecture will be held in this building:

Room 0.101
Institute für Computer Science, University of Göttingen
Goldschmidtstrasse 7
37077 Göttingen

