

## CALL FOR PAPERS - TOASTS @ SASO 2012

Workshop on Technologies for the Organisation, Adaptation and Simulation of Transportation Systems

September 14, 2012, Lyon, France

<http://www.iis.ee.ic.ac.uk/TOASTS>

**Deadline for submission: 4 July 2012**

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Year after year we are witnessing an increasing mobility of people and goods around the globe, from everyday commuting, to holiday trips, food and good distribution, and transportation related to ageing and public health, among many others. All this trips can be made by many different means of transportation (airplanes, public transport, private cars, car pooling, public bicycles, etc.), each of them with its own characteristics, advantages and disadvantages. As a consequence, the management of the transportation system as a whole becomes a very complex task, and it requires a better knowledge of users' travels and behaviours as well as their interactions with their environment.

To carry out this work, modeling methods and simulation tools are playing an increasingly importance for infrastructure design, network operation and new mobile services. In addition, the increasing pressure to mitigate the climate change has a major impact on logistics, and companies world-wide must rethink their distribution strategies to reduce their carbon footprint.

In light of this, self-adaptive and self-organising systems seem to be very appropriate. On one hand, self-adaptive systems allow the transportation systems to continuously adapt and cope with the dynamism of the environment (changing traffic conditions, dynamic demand, accidents, etc.). On the other hand, self-organising systems let the different involved actors to organise themselves, trying to achieve their goals without the need of a central authority forcing them to adopt a given behaviour. Also, the design of urban development and deployment of digital services can be expressed as of complex and self-\* systems by the number and nature of the entities involved, their interactions and their respective dynamics.

### TOPICS OF INTEREST

The purpose of this workshop is to bring researchers and practitioners together in order to set up visions on how methods and tools can be used for ground transportation applications. Relevant topics include (but are not limited to):

- Self-\* principles in traffic and transportation systems
- Agent-based and multi-agent systems for traffic and intelligent vehicles
- Distributed decision making in traffic and transportation

- New digital services and agents in transportation systems
- Agent-based approaches to modelling driver and pedestrian behaviour
- Enactive systems in ground transportation
- Intelligent routing systems
- Traffic management systems
- Variable message sign systems
- Vehicle to vehicle communication systems
- Public transport management systems
- Autonomic supply chain systems

#### **SUBMISSION**

- Deadline for submission: 4 July 2012
- Acceptance notification: 25 July 2012
- Early registration deadline: 20 August 2012
- Camera-ready papers: 24 August 2012

The length of the papers may not exceed 6 pages including references and must follow the IEEE Computer Society Press proceedings style guide. Papers should be submitted in PDF format using the EasyChair system. In case of acceptance, at least one author must attend the workshop to present it.

More information on how to format and submit the paper is available in the workshop website:<http://www.iis.ee.ic.ac.uk/TOASTS>

#### **ORGANISING COMMITTEE**

- Jean-Michel Auberlet, IFSTTAR (France)
- Didac Busquets, Imperial College London (UK)
- Emmanuelle Grislin-Le Strugeon, LAMIH, Valenciennes (France)
- Paulo Leitao, Polytechnic Institute of Bragança (Portugal)

#### **CONTACT**

Visit the workshop website for contact details:

<http://www.iis.ee.ic.ac.uk/TOASTS>