

Call for Papers



“Workshop on Artificial Transportation Systems and Simulation”

(<http://www.fe.up.pt/~rossetti/atss2008>)

To be held at the **11th International IEEE Conference on Intelligent Transportation Systems**

October 12-15, 2008, Beijing, China

(<http://www.ieeeitsc.org/>)

Scope and Topics:

The 2008's edition of ATSS is the 3rd of a series of workshops aiming to foster the discussion on issues concerning the development of **Artificial Transportation Systems and Simulation** as a means to devise, test and validate ITS-based technologies. With the ability to integrate different transportation models and solutions in a virtual environment, ATSS serve as an aid to support decisions made by engineers and practitioners in a controlled and safe manner. They also provide a natural ground where new approaches can be experimented while avoiding natural drawbacks of dealing directly with real critical domains.

On the basis of theories and methodologies borrowed from a wide *spectrum* of disciplines, such as the Social Sciences, Distributed Computing, Multi-agent Systems and many others, important issues to address in the development of Artificial Transportation Systems would include (but are not limited to):

- Agent-based modelling and simulation;
- Real agent architectures;
- Hardware and software-in-the-loop simulation;
- Agent-human interactions;
- Environment modelling and interaction protocols;
- Learning and adaptation;
- Collaboration, cooperation, competition, coalitions in traffic and transportation models;
- Social and emergent behaviour in MAS-T (multi-agent systems applied to traffic and transport);
- Large scale simulation of agent-based microscopic traffic models;
- Calibration and validation of agent-based models for traffic and transportation.

Paper Submission:

The workshop welcomes and encourages contributions reporting on original research, work under development and experiments addressing and stimulating discussion on diverse issues of ATSS. Papers will be reviewed on the basis of technical quality, relevance, significance, and clarity, and those selected for presentation at the Workshop will be published in the IEEE ITS Conference Proceedings.

Complete manuscripts in PDF format must be electronically submitted for peer-review in IEEE standard-format. Detailed submission instructions can be found on the paper submission website (<http://www.ieeeitsc.org>).

Important Dates (please note new deadline!!!)

- Paper submission deadline: ~~June 15, 2008~~ – July 7, 2008
- Notification of acceptance: ~~July 15, 2008~~ – July 30, 2008
- Camera-ready copy due: ~~August 15, 2008~~ – September 1, 2008

Inquiries:

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