



The 2018 IEEE Intelligent Vehicles Symposium (IV'18)

Changshu, Jiangsu, China

June 26 - June 30, 2018

IV'18 Workshop

- **Title of the Workshop:**

Artificial Transportation Systems and Simulation in IV (ATSS-IV 2018)

Code: 1v2u3

- **Content and List of Topics:**

The aim of the ATSS Workshop is 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, such as ITS. On the basis of theories and methodologies borrowed from a wide spectrum of disciplines, such as the Social Sciences, Cloud Computing, Artificial Intelligence and Multi-agent Systems, Virtual Reality and many others, many important issues arise which challenge and motivate researchers and practitioners from multidisciplinary fields, as well as different technical and scientific communities.

Topics of interest to the workshop include (but are not limited to):

- Agent-based modelling and simulation;
- Real-world agent architectures;
- Hardware-, software-, and human-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);
- Multi-resolution simulation and simulator interoperability;
- Growing artificial societies in artificial transportation systems;
- Large scale simulation of agent-based traffic models;

- Data Mining and Data Analysis for Artificial Transportation Systems;
- Calibration and validation of agent-based models for traffic and transportation;
- New trends and inspirational metaphors for artificial transportation systems;
- Social transportation;
- Transportation knowledge automation.

- **Important Dates:**

Papers submission: January 31st, 2018

Notification of acceptance/rejection: March 31st, 2018

Camera-ready version due: April 8th, 2018

Conference days: June 26 - July 1, 2018

- **Paper Submission:**

Prospective authors are required to submit their manuscripts electrically through the conference Papercept submission system (<https://its.papercept.net>) and with the code “1v2u3” for the workshop. Submitted papers shall not exceed six pages as a pdf file in IEEE two column format. See more detailed information at the conference website (<http://www.2018iv.org/>) to prepare your paper.

- **Organizers (names, affiliations, and emails):**

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