

The 11th International Workshop on Agent-based Mobility, Traffic and Transportation Models, Methodologies and Applications (ABMTRANS-2022)

<https://www.uhasselt.be/ABMTRANS>

in conjunction with

The 13th International Conference on Ambient Systems, Networks and Technologies (ANT-2022)

<http://cs-conferences.acadiu.ca/ant-22/>

March 22 - 25, 2022. Porto, Portugal

CALL FOR PAPERS : ANT-2022(MSTS) and ABMTRANS-2022

SCOPE

The aim of the ANT-2022 MSTS track is to bring together communities interested in the computation, knowledge discovery and technology policy aspects of transportation systems. The organizers of ANT-2022 (MSTS track) welcomes papers from researchers in the domains of transportation sciences and engineering, computer science, urban and regional planning, civil engineering, geography, geo-informatics and related disciplines to submit papers for consideration for presentation and for publication in the conference proceedings.

The ABMTRANS workshop provides a multidisciplinary collaborative forum for researchers and practitioners to submit papers presenting new research results and novel ideas related to the theory or the practice of agent-based traffic and transportation modeling. This workshop also invites researchers to submit their work focusing on the data mining, management and configuration for agent-based traffic and transportation modeling.

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

- Agent-based transportation modeling and simulation
- Agent-based negotiation of QoS and SLAs in traffic and transportation models
- Agent-based scheduling to establish synthetic agenda for day-to-day activities
- Calibration and validation of agent-based models for traffic and transportation
- Collaboration, cooperation, competition, coalitions in traffic and transportation models, including collaborative multi-modal transport
- Conceptual modeling of agent-based approach
- Data mining and statistical learning for travel information
- Environment modeling and interaction protocols
- Human-computer interfaces in intelligent transportation applications
- Human factors including adaptive driving, travel behavior, persuasive technology

- Large scale simulation of agent-based microscopic traffic models
- Logistics and transportation management
- Marketing decision support
- Mathematical optimization in traffic engineering and smart city topic
- Multi-modal routing of agents in a dynamic traffic environment
- Novel applications targeted to health, mobility, livable environment and sustainability
- Renewable energy sources in transportation
- Role of multi-agent methodologies for complex systems
- Simulation of traffic, passenger flows, assisted driving or collaborative transport
- Social and emergent behavior in MAS-T (multi-agent systems applied to traffic and transport)
- Social and institutional information related to travel
- Traffic flow and transportation modeling
- Travel information, including recommender systems and user feedback systems
- Uncertain information in collaborative transport and assisted traveling

SUBMISSION AND PROCEEDINGS

All ANT-2022 and ABMTRANS-2022 accepted papers will be printed in the conference proceedings published by Elsevier Science in the open-access Procedia Computer Science series (on-line). Procedia Computer Sciences is hosted on www.Elsevier.com and on Elsevier content platform ScienceDirect (www.sciencedirect.com), and will be freely available worldwide. All papers in Procedia will also be indexed by Scopus (www.scopus.com) and Engineering Village (Ei) (www.engineeringvillage.com). This includes EI Compendex (www.ei.org/compendex). The papers will contain linked references, XML versions and citable DOI numbers. You will be able to provide a hyperlink to all delegates and direct your conference website visitors to your proceedings. All accepted papers will also be indexed in DBLP (<http://dblp.uni-trier.de/>).

The submission processes will be managed by easychair.org. If you have used this system before, you can use the same username and password. If this is your first time using EasyChair, you will need to register for an account by clicking "I have no EasyChair account" button. Upon completion of registration, you will get a notification email from the system and you are ready for submitting your paper. You can upload and re-upload the paper to the system by the submission due date.

The authors must follow Elsevier guidelines as given in ANT-2022 website (<http://cs-conferences.acadiau.ca/ant-22/>).

For ANT-2022, submitted technical papers must be no longer than 8 pages for full papers and 5 pages for short papers including all figures, tables and references. Authors are requested to submit their papers electronically using the online conference management system (<https://easychair.org/conferences/?conf=ant2022>) in PDF format before the deadline (see Important Dates).

For ABMTRANS-2022 workshop papers, the number of pages is limited to 6 pages. Authors are requested to submit their contributions electronically in PDF format at: <https://www.easychair.org/conferences/?conf=abmtrans22>.

IMPORTANT DATES for ANT-2022 MSTs Track / ABMTRANS 2022

- Paper Submission: November 1, 2021 (Extension possible - consult website for latest news)
- Acceptance Notification: December 30, 2021
- Final Manuscript Due: January 27, 2022

REGISTRATION

Please visit: <http://cs-conferences.acadiau.ca/ant-22/#registration> for more information.

VENUE, ACCOMMODATION & VISA REQUIREMENTS

Please visit: <http://cs-conferences.acadiau.ca/ant-22/#conferenceVenue> for more information.

ABMTRANS-2022 WORKSHOP ORGANIZER

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