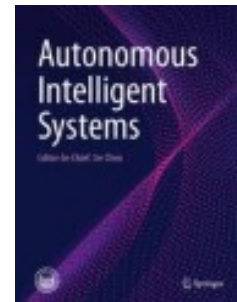


Special Issue: Humans and Autonomous Entities in Sustainable Intelligent Transportation Solutions

Journal on Automous Intelligent System (AIS)
<https://www.springer.com/journal/43684>



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Summary:

As the core of modern society, cities play an increasingly vital role through the rapid progress of urbanization and civilization. We are dreaming of smart cities that will provide a highly efficient, comfortable, economically sound, and quality life to everyone by integrating advanced technologies in transportation systems. The emerging intelligent transportation system (ITS) and automated vehicle technologies can revolutionize the way people commute in smart cities. With the help of an ITS and autonomous vehicles, even terrestrial or aerial, communities can decrease traffic congestion, improve mobility and logistic flows and even improve air quality.

Additionally, during the last decade, many technological advances have been made in the field of driving automation systems. The system design challenge was to avoid obstacles and to minimize frequency and magnitude of system failures. A significant progress has been made to overcome these challenges. These progresses raise the issue of cohabitation in a complex and risky environment (composed of other autonomous entities and human being for examples), with a system that has not necessarily the same logic of recognition and action. Hence, bringing the future advances in ITS an driving automation systems closer to everyone raises the challenge of a greater integration of humans in and outside the vehicles.

This Special Issue focuses on the most recent and relevant developments towards realizing such intelligent future transportation systems.

Topics and Keywords:

Topics of interest for this issue include, but are not limited to:

- Operational models and intelligent solutions
- Automated and connected vehicles and shared mobility
- Agent-based simulations of shared mobility
- Human-in-the-loop, Human-on-the-loop
- Explainable Artificial Intelligence
- Advanced system optimization algorithms for shared mobility
- Multimodal and integrated shared mobility platforms
- IoT in shared mobility
- Routings & Protocols; Protocols for shared mobility systems
- Big data and shared mobility analytics
- Cognitive and context aware intelligence
- Data Trustworthiness in shared mobility platforms
- Smartphone applications of shared mobility and user experiences
- Large-scale demand and supply simulation and models of shared mobility

- Sustainable and smart transport solutions
- Impacts of shared mobility solutions
- Real-time demand responsive mobility
- Data mining and machine learning for shared mobility
- Integration of vehicle communication and shared mobility communication systems

Submission:

Manuscripts should be submitted online at <https://www.springer.com/journal/43684> by registering and logging in to this website. Once you are registered, click here to go to the submission form. Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere. Extended versions of papers from relevant conferences and workshops are invited as long as the additional contribution is substantial (at least 30% of new content). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors page. Electronics is an international peer-reviewed open access semimonthly journal published by Springer.

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- Deadline for manuscript submission: **31th May, 2022**
- First notation of review: **30th June, 2022**
- Notation of final decision: **31th July, 2022**
- Expected date of publication: **31th August, 2022**