

## PUSHING REGIONS BEYOND THEIR BORDERS

5th June – 7th June 2019

University de Santiago de Compostela,  
Santiago de Compostela, Spain

### Call for abstracts for special session

#### Special Session SS10: Predicting spatial impacts of automated vehicles

Automated vehicles rely on technology which can replace or assist a driver to conduct complex driving tasks, starting from simple driving assistance (e.g. automated control on speed, Society of Automotive Engineers SAE Level 1) up to very complex, fully automated driving systems which can perform all driving tasks in some (SAE level 4) or in all conditions (SAE level 5). Apart from substantial technological and communication changes, the deployment of automated vehicles is likely to deeply influence passenger and freight transport, and to transform land use in urban, suburban, and rural areas. Moreover, automated transport creates favourable conditions for shared mobility systems. In consequence, we face an urgent need to identify and evaluate the spatial impacts of automated transport systems, including their social, economic, and environment implications at local, urban, regional and national level.

Even though, automated driving technology is considered to be still in its infancy, there is growing interest in this topic, expressed by researchers as well as by the public and private sectors. Socio-economic impacts of connected, automated, and shared mobility were the main topics of the 6<sup>th</sup> EU-US Transportation Research Symposium 2018 co-organized by the European Commission and the Transportation Research Board (TRB) and are also one of the main challenges explored within the **WISE-ACT COST Action** (Wider Impacts and Scenario Evaluation of Autonomous and Connected Transport). This session creates an opportunity to inform and further academic debates and policy discussions about the potential impacts of automated transport, including its significant spatial perspective. A keynote presentation is anticipated to be delivered during this session by Dimitris Milakis Ph. D., Head of the 'Automated driving and new mobility concepts' Research Group at the Institute of Transport Research, German Aerospace Center (DLR) in Berlin. His numerous publications over the past few years about relevant topics will set the context and frame the discussions of this session.

During this session, we would like to review and summarise the state-of-the-art of the spatial impacts of the deployment of automated vehicles' technology. Therefore, this session invites contributions to the literature about geographical dimension of automated vehicle impacts related (but not limited) to:

- Urban and regional planning with a primary focus on institutional and governance issues;
- Accessibility (to jobs, services etc.) and its measurement at local/urban/regional/national level;
- Territorial cohesion, regional disparities, wellbeing and social equity;
- Land use and location choices, including sub-urbanisation, residential mobility and/or (de)centralization of economic activities;
- Travel patterns and modal share at local/urban/regional/national level.

If you are interested in presenting your research at this session, please submit your abstract of no more than 300 words via the RSA platform (<https://www.regionalstudies.org/events/pushing-regions-beyond-their-borders/>) by **28<sup>th</sup> February 2019**. Early contact with the session organisers is encouraged to discuss potential topics and submissions. In case of any questions about this session and abstract submission, do not hesitate to contact session organizers.

#### Session Organisers:

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