



## Special Session Proposal

### Changing patterns of spatial mobility during the Twin Transition

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#### Abstract

This session explores the evolving dynamics of spatial mobility in the context of the Twin Transition, which encompasses the green and digital transformations shaping societies and economies. The rapid digitalization of various sectors is changing the way people work, learn, and socialize, leading to new patterns of movement and reshaping traditional spatial mobility practices. Remote work, virtual collaboration, the rise of online services and digital nomad lifestyle are altering the demand for physical presence, resulting in a shift in the patterns of migration, temporary working and circular commuting. This shift calls for a deeper understanding of how spatial mobility can be adapted to fit the evolving needs of increasingly digital lifestyles and its impacts on urban-rural dynamics.

Simultaneously, the push for sustainability and the transition to greener practices is transforming transportation systems, urban planning, and the distribution of resources. Efforts to reduce carbon emissions have spurred innovations such as electric vehicles, smart public transportation, and eco-friendly urban designs, all of which are reshaping how people and goods move through cities and regions. The integration of green infrastructure and digital tools, such as data-driven traffic management and smart grids, has become crucial in supporting this transition. Understanding how these developments intersect with spatial mobility is key to developing policies that foster sustainable, efficient movement while minimizing environmental impacts.

By examining the interplay between the green and digital transitions, this session will highlight the challenges and opportunities in adapting spatial mobility to a world that is becoming both more digitally interconnected and environmentally conscious. Experts will present case studies, data analyses, and future scenarios, offering valuable insights into how different regions are navigating these changes. Attendees will have the opportunity to engage in discussions about innovative strategies for addressing emerging mobility needs, balancing economic growth with environmental goals, and shaping the future of mobility in an era defined by rapid technological and ecological transformation.

We are looking forward to receiving proposals that focus on, but are not limited to, the following key topics:

- **Impact of Digitalization on Mobility Patterns:** Exploring how remote work, online services, and digital collaboration tools are altering commuting trends, migration flows, and urban-rural dynamics.
- **Sustainable Transportation Innovations:** Analysis of new transportation solutions, such as electric vehicles, smart public transportation systems, and eco-friendly urban planning, that support the green transition.
- **Intersection of Green and Digital Infrastructure:** Examining how data-driven tools, smart grids, and green infrastructure are integrated to enhance the efficiency and sustainability of spatial mobility systems.
- **Regional Case Studies and Policy Responses:** Insights into how different regions are adapting their mobility strategies to align with the demands of the Twin Transition, including successes and challenges faced in implementation.
- **Future Scenarios for Mobility in a Changing World:** Discussions on potential future developments in mobility, including balancing economic growth with environmental sustainability in a digitally connected and climate-conscious landscape.

A proposal for a special issue will be submitted after the end of the conference, depending on the thematic alignment of the studies presented in this special session.