

Special Session on
Sustainable Urban Mobility
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I. PURPOSE AND SCOPE

Urban mobility is a complex system in which the demand for mobility and the supply of multimodal transport interact dynamically with each other and the anthropic and natural environment.

The continuous urbanization after the Second World War has led 74% of the European population to live in urban areas. The consequent urban expansion has produced an increasing use of private vehicles and a continuous reduction of public transport, and led to a significant waste of urban space and energy resources and, therefore, to less inclusiveness, accessibility and road safety. The resulting economic, social and environmental impacts are significant and are widely considered unsustainable: 67% of road accidents occur in cities; 23% of greenhouse gas emissions in Europe are produced by urban transport; 130 billion euros are lost every year due to road congestion.

The special session aims to focus on the specific issues that concern the intelligent transport systems approach and are caused by the particularities of the urban context, as well as on the resulting methods and solutions designed to address them.

II. TOPICS OF INTEREST

The expected contributions are related to, but not limited to, the following topics:

- New governance paradigms and innovative urban mobility policies
- Behavioural models of new mobility models: active mobility, shared mobility
- Platform models for urban mobility management
- Urban road safety issues
- Multimodal hubs and corridors
- Automated urban mobility
- Advances in urban logistics
- Electric vehicles and energy management in urban mobility

III. EXPECTED NUMBER OF ARTICLES

Thanks to the existing interaction between different universities and contacts with international research networks on urban mobility, it is expected to have at least 5 high-quality papers, which will be selected after an in-depth peer review process.

IV. DISSEMINATION PLAN

A specific "Call for papers" will be distributed through the MT-ITS website, professional platforms, and contact networks already active in European and international contexts.