



# Mobile big data for spatial mobility and transport planning

Special NECTAR session at Mobile Tartu Conference 2024  
Tartu, Estonia, 12<sup>th</sup> – 14<sup>th</sup> of June 2024

## Call for papers

We are pleased to invite you for a special session *Mobile big data for spatial mobility and transport planning* organised by Cluster 8 (ICT) of NECTAR at the Mobile Tartu international conference, Tartu, Estonia, 2024.

### Main topic

Mobile phones are an indispensable asset in our society as are their data and applications within the field of transportation. Sensor data like CDR and GPS data generated by phones are used to monitor and analyse traffic conditions and travel behaviour. In the past few years, technological developments facilitated the increased use of digital devices (including connected vehicles/IoT), generating even more data which can be used for these purposes. Several are becoming devices travellers rely upon while travelling and are increasingly used to gather specific data varying from measuring travel conditions, perception, crowd-sourced feedback and participation. As a result, these devices have become a main source of mobile big data used to provide decision information for transportation authorities, travellers, and private companies. Without mobile big data and devices which can be used to interact, pay, unlock transportation modes, plan and inform travellers, MaaS applications, for instance, would not have been possible.

### Topics of interest

We seek to attract papers which will provide insights both from a conceptual and an empirical perspective, on the use of mobile big data, devices or smartphone apps within the field of transportation as well as the limitations and problems associated with the use of such data. We are specifically interested in papers focusing on the combination and integration of data sources to assess network performance (including proximity and social inequalities) and to allow for consistent travel behaviour knowledge on individual as well as aggregated level.

### Important dates

Abstract submissions: 15 February 2024  
Abstract acceptance: 15 March 2024

Abstracts (max 400–600 words) should be submitted using the Mobile Tartu Conference website (<https://mobiletartu.ut.ee/>) and a copy of the abstract should be sent to Siiri Silm ([siiri.silm@ut.ee](mailto:siiri.silm@ut.ee)) and Luc Wismans ([l.j.j.wismans@utwente.nl](mailto:l.j.j.wismans@utwente.nl)). The abstract must follow the abstract formatting and submission guidelines as shown on the conference



website. In the abstract submission form, the author must indicate that the abstract is submitted to the NECTAR special session.

**Session organisers**

Dr. Siiri Silm, University of Tartu, Estonia (Cluster co-chair)

Dr. Luc Wismans, University of Twente, the Netherlands (Cluster co-chair)

**NECTAR** is a European-based scientific association. The primary objective is to foster research collaboration and exchange of information between experts in the field of transport, communication and mobility from all European countries and the rest of the world. It is a multidisciplinary social science network bringing together a wide variety of perspectives on transport and communication problems and their impacts on society from an international perspective. For further information on NECTAR, use the link: <http://www.nectar-eu.eu>.

**Mobile Tartu** is a bi-annual international conference organized by the Mobility Lab, University of Tartu, Estonia. The aim of the event is to discuss conceptual, methodological and empirical aspects of measuring mobility with the help of mobile big data and understanding related socio-spatial and human-environmental interactions. For further information see: <http://mobiletartu.ut.ee/>