



MOBITAS 2020

2ND INTERNATIONAL CONFERENCE ON HCI IN MOBILITY, TRANSPORT AND AUTOMOTIVE SYSTEMS

Jointly held under one management and one registration with HCI International 2020

<http://2020.hci.international/mobitas>

HCI International 2020

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Chair

Heidi Krömker (heidi.kroemker@tu-ilmenau.de)

Human computer interaction in the highly complex field of mobility and intermodal transport leads to completely new challenges. A variety of different travelers move in different travel chains. The interplay of such different systems, such as car and bike sharing, local and long-distance public transport and individual transport, must be adapted to the needs of the travelers.

Intelligent traveler information systems must be created to make it easier for travelers to plan, book and execute an intermodal travel chain and to interact with the different systems.

Innovative means of transport are developed, such as electric vehicles and autonomous vehicles. To achieve the acceptance of these systems, human-machine interaction must be completely redesigned.

The related topics include, but are not limited to:

- Cooperative and intelligent transport systems
- Cooperative driving and connected vehicles
- User interfaces for (semi) autonomous driving
- User-interfaces for inter-vehicle communication in the context of V2V, V2I, Car-to-X
- Smart vehicle interaction
- Automotive user interfaces:
- Driver information and assistance systems
- Navigation systems
- In-vehicle head-up displays and augmented reality
- Gaming and entertainment
- Driver and passenger user experience
- Driver behavior and modelling: state recognition, intelligent driving assistance
- Traveler information systems along the travel chain
- Smart Stations: passenger information at the stops to change the means of transportation, e.g. train, bus, subway, car- and bike sharing
- Engineering of mobility services along the travel chain
- Traveler's behavior
- Women in transport
- Mobility for the challenged
- Traveler's requirements and modelling
- Methods, tools and simulations for user-interface research in the context of mobility
- Mobility experience in travel chains
- Mobility planning
- Ticketing in public transport
- City guides and urban transport systems
- Car- and bike sharing system: access and billing
- Transportation systems management
- Traffic control center and –systems
- Visualization of traffic data
- Decision support systems in transport
- Road safety support systems

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