

**21st International Conference  
on Human-Computer Interaction**  
Walt Disney World Swan and Dolphin Resort  
Orlando, Florida, USA  
26 - 31 July 2019

<http://2019.hci.international/>

## **ADVANCE CALL FOR PARTICIPATION**

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### **MobiTAS 2019**

**1st International Conference on Mobility,  
Transport and Automotive Systems**

*Jointly held under one management and one  
registration with HCI International 2019*

**Chair: Heidi Krömker**

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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.

*Conference proceedings published by*

### **The related topics include, but are not limited to:**

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