

1. Record Nr.	UNISA996418311303316
Titolo	HCI in Mobility, Transport, and Automotive Systems. Driving Behavior, Urban and Smart Mobility [[electronic resource] ] : Second International Conference, MobiTAS 2020, Held as Part of the 22nd HCI International Conference, HCII 2020, Copenhagen, Denmark, July 19–24, 2020, Proceedings, Part II // edited by Heidi Krömker
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-50537-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXIV, 399 p. 170 illus., 137 illus. in color.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI ; ; 12213
Disciplina	629.046
Soggetti	User interfaces (Computer systems) E-commerce Application software Computer organization Optical data processing Robotics User Interfaces and Human Computer Interaction e-Commerce/e-business Information Systems Applications (incl. Internet) Computer Systems Organization and Communication Networks Image Processing and Computer Vision
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Studies on Driving Behavior -- Hand-Skin Temperature Response to Driving Fatigue: an Exploratory Study -- Toward Driver State Models that Explain Interindividual Variability of Distraction for Adaptive Automation -- Development of a Driving Model that Understands Other Drivers' Characteristics -- Voice User-Interface (VUI) in Automobiles: Exploring Design Opportunities for using VUI through the Observational Study -- Measuring Driver Distraction with the Box Task -- A Summary of Two Experimental Studies -- I Care Who and Where

you Are – Influence of Type, Position and Quantity of Oncoming Vehicles on Perceived Safety during Automated Driving on Rural Roads -- Evaluation of Driver Drowsiness while Using Automated Driving Systems on Driving Simulator, Test Course and Public Roads -- Conflict Situations and Driving Behavior in Road Traffic – an Analysis using Eyetracking and Stress Measurement on Car Drivers -- Decision-making in Interactions between Two Vehicles at a Highway Junction -- Influencing Driver's Behavior on an Expressway with Intrinsic Motivation -- The Relationship between Drowsiness Level and Takeover Performance in Automated Driving -- Urban and Smart Mobility -- Toolbox for Analysis and Evaluation of Low-Emission Urban Mobility -- Training Pedestrian Safety Skills in Youth with Intellectual Disabilities Using Fully Immersive Virtual Reality - A Feasibility Study -- A Decision Support System for Terminal Express Delivery Route Planning -- A Tactile Interface to Steer Power Wheelchairs for People Suffering from Neuromuscular Diseases -- A Methodological Approach to Determine the Benefits of External HMI during Interactions between Cyclists and Automated Vehicles: A Bicycle Simulator Study -- Mobility-as-a-Service: Tentative on Users, Use and Effects -- A Passenger Context Model for Adaptive Passenger Information in Public Transport -- An Evaluation Environment for User Studies in the Public Transport Domain -- Design Guidelines for the Simulation of the Usage Context “Station” in VR Environment -- UI Proposal for Shared Autonomous Vehicles: Focusing on Improving User's Trust -- Employees' Vulnerability – the Challenge When Introducing New Technologies in Local Authorities -- PRONTOMovel – A Way of Transporting Creativity and Technology -- Multimodal Mobility Packages – Concepts and Methodological Design Approaches -- A Multi-Device Evaluation Approach of Passenger Information Systems in Smart Public Transport -- Investigating the Influencing Factors of User Experience in Car-sharing Services: an Application of DEMATEL Method -- Assistive Systems for Special Needs in Mobility in the Smart City.

---

### Sommario/riassunto

This two-volume set LNCS 12212 and 12213 constitutes the refereed proceedings of the Second International Conference on HCI in Mobility, Transport, and Automotive Systems, MobiTAS 2020, held as part of the 22nd International Conference on Human-Computer Interaction, HCII 2020, in Copenhagen, Denmark, in July, 2020.\* A total of 1439 full papers and 238 posters have been carefully reviewed and accepted for publication in HCII 2020. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. MobiTAS 2020 includes a total of 59 papers and they are organized in the following topical sections: Part I, Automated Driving and In-Vehicle Experience Design: UX topics in automated driving, and designing in-vehicle experiences. Part II, Driving Behavior, Urban and Smart Mobility: studies on driving behavior, and urban and smart mobility. \*The conference was held virtually due to the COVID-19 pandemic.

---