



Call for Papers

7. Workshop “Automotive HMI”: Safety meets User Experience (UX)

colocated with “Mensch und Computer 2018”

September 2-5, 2018 | Dresden

<http://ws-automotive-hmi.human-machine-interaction.de>

Introduction

Automotive user interfaces and automated vehicle technology pose numerous challenges to support all diverse facets of user needs. These range from inexperienced, thrill-seeking, young novice drivers to elderly drivers with a mostly opposite set of preferences together with their natural limitations. To allow assessing the (hedonic) quality of automotive user interfaces and automated driving technology (i.e., UX) already during development, the proposed workshop is dedicated to the quest of finding objective, quantifiable criteria to describe future driving experiences.

The workshop is intended for HCI, AutomotiveUI, and “Human Factors” researchers and practitioners as well for designers and developers. In adherence to the conference main topic “Interaktion – Verbindet – Alle”, this workshop calls in particular for contributions in the in the areas of human factors and ergonomics (user acceptance, trust, user experience, driving fun, natural user interfaces, etc.) with focus on hedonic quality and design of user experience to enhance the safety feeling in ADS.

Topics of Interest

The main aim of the workshop is to discuss methods and models for the quantification of quality criteria for automotive user interfaces in the transition from manual to automated driving (human factors perspective).

Topics of interest include, but are not limited to:

- Acceptance criteria for (automated) driving systems (ADS) on both individual (driver) and societal levels
- Designing user experience for automated driving, i. e., what are key aspects that lead to a good UX for ADS?
- Supporting situation awareness through design
- Implications of human centered design on ADS including challenges caused by different levels?
- Opportunities to take over user centered design approaches from other domains to automated driving
- User interface concepts to improve the feeling of safety of driver-passengers
- Methods for enabling and quantifying trust-in-automation
- Methods to foster driving pleasure and concepts for in-vehicle gaming
- Ergonomic aspects in highly automated driving
- Futuristic concepts of shared control, vehicle interior, and in-vehicle non-driving-related activities

- Novel, natural user interfaces that address the transition from manual to fully automated driving
- Personalization of vehicle behavior and interfaces
- Driving simulator studies in the broader context of automated driving, including combinations of different automation levels and involvement of non-drivers
- Artificial intelligence in UI's (predictive HMIs, adaptive systems)

We welcome CONTRIBUTIONS from both academia and industry in either GERMAN or ENGLISH language!

Submission Guidelines

Contributions are welcome in various forms including scientific papers reporting user study results, theoretical concept papers, futuristic visions or design concepts. We accept long (up to eight pages) and short papers (maximum length of four pages), both formatted according to the template for the main conference addressing one or multiple of the topics described above. Papers have to be submitted on or before the submission deadline (June 7, 2018) using the submission system ConfTool (<https://www.conftool.com/muc2018/>).

Accepted papers will be invited for short presentations at the workshop (e.g., 10 minute slots including Q&A). Accepted papers will be included in the MuC 2018 workshop proceedings. Accompanying videos, demonstrators of automotive HMI systems or other media are explicitly desired.

Important Dates

- Submission deadline: June 6, 2018
- Notification of acceptance: June 27, 2018
- Final version due: July 11, 2018
- Workshop at MuC: Monday, September 3, 2018 (tentative)

Organizers and Contact

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