Automotive User Interfaces and Interactive Applications – AUIIA 08

Albrecht Schmidt, Universität Duisburg-Essen
Susanne Boll, Universität Oldenburg
Wolfgang Spießl, BMW Group Forschung und Technik, München
Matthias Kranz, DLR, Oberpfaffenhofen

Theme and Topics

Components that include processing, communication, sensing and media are common in many areas in the automotive domain. With these novel technologies creating attractive in-car user interfaces has become a great challenge. Additionally, users expect interfaces that are intuitive and straightforward to use, without the need to read a manual. The overall experience in driving a car is more and more influenced by the man-machine interface, and hence creating a compelling user interface is of great importance for a successful product. Traditional means for user interface development as known from desktop computing are often not suitable, as many other conditions have an influence on the design space for automotive user interfaces. In comparison to many other domains, trial and error while the product is already in the market is not acceptable as the cost of failure may be fatal. User interface design in the automotive domain is relevant across many areas ranging from primary driving control, to assisted functions, to navigation and entertainment.

In the workshop 10 papers will be presented that show novel research in this field of automotive user interfaces. Topics range from novel applications, to innovative interaction methods, concepts and research tools, e.g. research on vibro-tactile interaction and driver distraction, studies on age-, gender- and culture related aspects of HMIs, the potential of context-aware and cooperating in-car systems as well as abstract and adaptive HMI frameworks.

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