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Human-Computer Interaction Application for Autonomous Vehicles

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Message from the Guest Editor

Dear Colleagues,

Conventional human–vehicle interaction (HVI) design has been referred to as human–machine interaction from the perspective of car-as-machine. Driver interactions (e.g., manual operation, navigation) with manual vehicles will of course remain, but the paradigm shift of the driver’s role in autonomous vehicles brings about new human-centered research questions: What NDRTs will we want to perform in a fully autonomous vehicle, and how will we want to interact with vehicle systems while performing them? How will traditional interfaces such as radio buttons or climate control knobs be adapted for future vehicles? Most importantly, how should these AI-based systems interact with other objects, people, and vehicles on the road?

This Special Issue explores these questions that deal with human factor issues and HCI (human–computer interaction) applications for autonomous vehicles.



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Special Issue



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Message from the Editor-in-Chief

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