Special Issue

Human-Centered Approaches to Automated Vehicles

Message from the Guest Editors

This Special Issue will explore how people and automated vehicles (AVs) will work together as technology continues to change quickly. Vehicles are becoming more focused on people and their needs; thus, it is important to study innovative human-centered approaches in shaping different mobility solutions. Special attention will be paid to how humans and machines communicate and collaborate with each other in cars and how researchers are working to make sure that technology helps people stay in control when they are driving. Novel ADAS adapting to human needs and in-cabin monitoring tools are a good example of such technologies. This Special Issue will also provide insights into what could happen with the implementation of vehicles with high levels of automation, stressing how important it is to mix technology with features that people need for safety and comfort. **Keywords:**

- advanced driver assistance systems
- shared control
- traded control
- human–machine interfaces (HMIs)
- external HMIs
- teleoperation
- in-cabin monitoring systems
- gesture control
- explainable AI towards AV users
- human-centered methodologies in AVs

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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