

Special Issue

Applications of Human–Computer Interaction in Driving

Message from the Guest Editor

The advent of advanced driver assistance systems (ADASs), advanced rider assistance systems (ARASs) and autonomous vehicles (AVs) has led to significant interest in leveraging human–computer interaction (HCI) principles to optimize the interaction between drivers or riders and their vehicles. In particular, (semi-)autonomous vehicles need to interact with humans in different situations and by different means, ranging from communicating with the human who is driving to coordinating with other human-driven vehicles on the road. This Special Issue on applications of human–computer interaction in driving aims to collect cutting-edge research and innovative applications that explore the intersection of HCI and automotive technology. It focuses on highlighting the potential for enhancing safety, comfort, and overall driver experience through the application of modern methodologies, such as machine learning, artificial intelligence, predictive control, optimal control, etc.

Guest Editor

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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.

Editor-in-Chief

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