Special Issue

Human Machine Interaction in Automated Vehicles

Message from the Guest Editors

Intelligent human-machine interaction (HMI) plays an inseparable role in automated vehicles (AVs). With rapid advancements in the field of AVs, the intelligent HMI has piqued the public considerable interests. As a result, advanced interaction methods and interfaces have been investigated to enhance user experience, acceptance, and trust. A well-established HMI system requires that the AV can correctly infer the explicit and implicit interactive cues according to the cognitive state of the users and the dynamic contextual driving scenario leveraging the growing number of multimodal sensors. Therefore, it is underpinned by the coupling and coordinated developments in various related fields such as intelligent perception and control, artificial intelligence (AI), advanced sensing, wearable systems, and flexible electronics technologies. Although the research on HMI systems has made a remarkable progress in many tasks, there are still many unsettled issues needed to be further explored to attain harmonious interactive AVs. The objective of this Special Issue is to compile recent study and development efforts contributing to advances in intelligent approaches for HMI in AVs.

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Deadline for manuscript submissions

closed (30 September 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/114899

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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