# Special Issue

# Advanced Sensing and Safety Control for Connected and Automated Vehicles

**Message from the Guest Editors**

Connected and automated vehicle (CAV) is a transformative technology that is expected to change and improve the safety and efficiency of the mobilities. As main functional components of CAVs, advanced sensing technologies and control algorithms, which gather environmental information, process data, and control vehicle motion, are of great importance. The development of novel sensing technologies for CAVs has become a hot spot in recent years. Thanks to the improved sensing technologies, CAVs are able to interpret sensory information to further detect obstacles, localize their positions, and navigate themselves and interact with other surrounding vehicles in the dynamic environment. Further, leveraging computer vision and other sensing methods, in-cabin humans' body activities, facial emotions, and even their mental states can also be recognized.

The objective of this SI is to compile recent research and development efforts contributing to advances in sensing and control for CAVs. The Special Issue will also welcome contributions addressing the state-of-the-art in associated developments and methodologies, and the perspectives on future developments and applications.

**Guest Editors**

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**Deadline for manuscript submissions**

closed (20 November 2022)


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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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