Special Issue

Sensors for Smart Vehicle Applications

Message from the Guest Editors

In order to improve the safety, comfort, and performance of vehicles, the reliable perception of the environment as well as accurate and robust state information (position, velocity, and attitude) of vehicles are particularly important. By processing the on-board sensors (LiDAR, radar, camera, GPS, IMU, etc.) on autonomous vehicles and also the shared information from communication, environmental perception is realized. Simultaneously, vehicle state estimate via various positioning algorithms can be performed. This Special Issue aims to introduce technologies related to environmental perception, state estimation, and control systems for autonomous vehicles. Original research and comprehensive reviews are welcome. Potential topics include, but are not limited to:

- Autonomous driving systems;
- Sensor fusion;
- Environmental perception (object detection and tracking);
- GNSS positioning, inertial navigation, and integrated navigation;
- Simultaneous localization and mapping;
- Vehicle state estimation;
- Security for autonomous vehicles;
- Vehicle dynamics control.

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2022)

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Message from the Editor-in-Chief

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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