Special Issue

Robust Multimodal Sensing for Automated Driving Systems

Message from the Guest Editors

This Special issue aims to collect original theoretical or empirical articles on different sensing technologies, solutions, and applications for automated vehicles. Potential topics include but are not limited to the following topics:

(1) External sensing technologies: Detection and ranging technologies: radar, lidar, sonar, cameras; Localization and mapping: GPS and HD maps; Object detection, classification, and scene segmentation algorithms; Object tracking and prediction algorithms; Data annotation; External HMI; ICT infrastructure;

(2) Internal sensing technologies: Driver monitoring systems, including related usability acceptance challenges; Detection of driver's physiological states: fatigue, discomfort, sickness, including 'wearable' technology; Driver fitness/risk assessment for conditional automation; User experience improvements through sensors;

(3) Sensor fusion and dependability: Dependable sensor systems; Multimodal sensor fusion algorithms; Improvements in training, evaluation, and validation of robust perception systems.

Guest Editors

Prof. Dr. Jaka Sodnik

Dr. Nikolas Thomopoulos

Dr. Ignacio Alvarez

Deadline for manuscript submissions

closed (30 June 2024)

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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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