Robust Multimodal Sensing for Automated Driving Systems

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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.

Special Issue

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Message from the Editor-in-Chief

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