

Special Issue

Advances in Sensing, Imaging and Computing for Autonomous Driving

Message from the Guest Editors

The techniques of autonomous driving have been experiencing profound innovation and becoming increasingly mature, which greatly accelerates the development of automobile industry. The success of the autonomous driving vehicles is mainly benefited from their high-performance perception and decision-making systems guided by a huge amount of perceptual data collected via various onboard sensors. For instances, GPS sensors collect real-time location data with exact coordinates, radar sensors detect surrounding objects and their distance to vehicles, behavior-relevant sensors monitor environment inside the car and record operation of passengers, and camera sensors work as the eyes of vehicles to perceive visual view and instruct driving behaviors. These sensory data can not only facilitate autonomous vehicles but also serve as precious data resource for smart city, smart transportation, and many other real applications. This special issue solicits high-quality contributions that focus on the design and development of new technologies, algorithms, and tools to advance autonomous driving techniques.

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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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