Special Issue

Intelligent Vehicles and Autonomous Driving

Message from the Guest Editor

In recent years, intelligent vehicle and autonomous driving technologies have achieved rapid developments with the promotion of artificial intelligence and vehicle networking technologies. Environment perception is responsible for understanding the surrounding environment of the vehicle. High-precision environment perception modules can provide a safety guarantee for intelligent vehicles and enhance the active safety of the transportation system. To better design intelligent vehicles and autonomous driving systems, we need to comprehensively consider issues such as perception, control algorithms, positioning and mapping, human–machine interaction, and river behavior analyzation, so as to improve vehicle safety and comfort. This Special Issue includes but is not limited to the following topics:

- Vehicle states perception technologies;
- Intelligent decision technologies;
- Positioning and mapping technology;
- Cooperative control technologies;
- Motion planning and trajectory tracking;
- Multi-object tracking;
- 3D object detection;
- Human–machine co-driving;
- Human–machine interaction;
- Driver behavior analyzation.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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