Special Issue

Artificial Intelligence and Internet of Things in Autonomous Vehicles

Message from the Guest Editors

The continuous progress of automated vehicle driving functions as well as the global deployment of Cooperative Intelligent Transport Systems (C-ITS) both motivate the research, innovation, and development of new traffic control strategies and ITS services. These activities will enable the transition from fully conventional traffic flows towards fully automated vehicle traffic. However, fully automated operation remains a challenge due to the inherent difficulties and safety concerns of real-world driving, especially in an urban setting, which is characterised by uncertainty over the intentions of other road users. Integration of V2X communication has the potential to reduce uncertainty by sharing information between road users and government-owned road infrastructure. However, traditional manual vehicles will dominate road use in the short-to-medium-term future.

This Special Issue encourages authors from academia and industry to submit new research results about technological innovations and novel ideas for connected automated vehicles (CAVs), with special interest for artificial intelligence and Internet of Things and their safety impacts.

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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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