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Intelligent Vehicles Based on Computer Vision, Multimodal Sensing and Autonomous Systems for Complex Transportation

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Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

Over the past decade, deep-learning-based methods have been utilized with great success in intelligent vehicles, as they are comprehensively superior to traditional methods. In the field of complex transportation, the use of deep-learning-based computer vision, multimodal sensing, and autonomous systems has received extensive attention, enabling more accurate, efficient, and cheaper sensing, modelling, analysing, and decision making. These techniques make motoring safer, more convenient and more efficient, and have dramatically changed transportation systems. In the future, there will be huge demand and broad application prospects for intelligent vehicles.

In this Special Issue, original research articles and reviews are welcome. Research areas may include the following:

- Traffic image/video quality enhancement;
- Traffic sign/light detection and recognition;
- Driver monitoring;
- Vehicle forward collision warnings, blind spot monitoring;
- Vehicle/cyclist/pedestrian detection;
- Vehicular sensing;
- Simultaneous localization;
- Behavioural decision making;











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Message from the Editor-in-Chief

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