Special Issue

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

Message from the Guest Editors

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;

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Jianming Zhang
School of Computer and Communication Engineering, Changsha University of Science and Technology, Changsha 410114, China

Dr. Ke Gu
School of Computer and Communication Engineering, Changsha University of Science and Technology, Changsha 410114, China

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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