

# Call for Papers

## Special Collection on **Recent Advances in Sensor-based Smart Car Technology**

In developing an innovative vehicle that is fit for the future, it is necessary to take a holistic approach in order to reconcile various conflicting criteria that are in a complex relationship with each other. The car of the future will be part of an intelligent, self-organizing traffic system and thus itself be an active element in traffic management. In the future, cars will be able to communicate with each other and interact with transport infrastructure. This will not only bring about improved road safety but also open up new possibilities for improving traffic flows and optimizing the use of scarce infrastructure. Safety technology in the car of the future will contribute to the realization of 'Vision Zero'. This is the name given to a campaign aimed at the complete elimination of road fatalities.

To achieve this goal, integration of Smart car with sensors and its networks is a natural choice and henceforth the sensor-based Smart car technology is emerging as an important field of research. This special issue aims to highlight the latest research results on algorithms and technologies for human and car-equipped sensor-based Smart car technology. It will include related topics and demonstrate original research work in this field. It will also cover the results of investigation on these topics featuring novel solutions and discuss the future trend of research in this domain.

Potential topics include, but are not limited to:

- Heterogeneous Wireless Networking for Connected Vehicles
- Sensor-based object detection/recognition schemes and driver assistance technologies
- Real-time signal processing algorithms for networked vision sensors
- Intelligent collision avoidance mechanisms and Connected Autonomous Vehicles
- Design of UI/UX for advanced driving assistance system (ADAS)
- Human sensors-based applications for smart car system
- Driver state and intention detection/prediction in the ADAS context
- Fusion and integration of signals from heterogeneous multiple sensors
- Security and privacy issues in the connected Vehicles
- Big Data Analytics for Connected Cars
- Embedded sensor system/circuit design for ADAS
- Real-time WSN operating systems and reliability and QoS issues for smart car system
- Empirical studies and prototype systems

The submitted manuscripts for this special issue will be peer-reviewed before publication.

Find the submission guidelines here: <http://bit.ly/IJDSN-Guidelines>  
Please submit your article here: <http://bit.ly/IJDSN-Submit>

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