

Special Issue

Advancements in Smart Sensors for Automotive Systems

Message from the Guest Editor

This Special Issue aims to showcase the most recent advances and scientific findings in the design, implementation, and experimental validation of cutting edge technologies for automotive smart sensors and sensing nodes, both in terms of hardware and software, including data fusion and data-driven models/AI techniques, for present and next-gen applications in all kinds of vehicles (ICEVs, HEVs, EVs, FCEVs, and industrial/heavy-duty vehicles). Topics of interest include, but are not limited to, the following:

- Sensors and integrated sensor nodes for internal combustion engines and electrical motors;
- Sensing solutions (HW+SW) for fuel cell electric vehicles;
- Sensing architectures and related methodologies/data processing for braking, steering, cooling, suspension, electrical, exhaust, seating, and A/C sub-systems;
- Sensing solutions (HW+SW) for driver drowsiness detection and driver comfort;
- Sensor devices and data processing for ADASs;
- Integrated sensors for battery pack/modules;
- Sensing solutions (HW+SW) in time and frequency domain at the battery cell level;
- Numerical processing and control in next-gen BMSs;
- Wireless sensor networks in automotive applications;

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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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