

Special Issue

Dependable Wireless Sensor Networks for Autonomous Vehicles

Message from the Guest Editors

This Special Issue is dedicated to contributions concerning dependability of WSNs in the field of autonomous vehicles and will highlight current and future applications for highly and fully automated driving, such as platooning, cooperative driving, cooperative active safety, or multimodal mobility. It will include, among others, the topics of:

- Inter-vehicle communication (v2v, v2x);
- Intra-vehicle communication (condition monitoring, passenger monitoring, etc.);
- WSN updates over the air;
- Ad hoc networks;
- Simulation-supported development methods of WSN;
- WSN hardware design;
- Data acquisition and pre-processing (edge/cloud computing);
- Testing and validation of WSN;
- Synchronisation of sensors;
- Health assessment and diagnostics of WSN;
- Intrusion detection and prevention in WSNs;
- Data fusion and integration of signals from heterogeneous multiple sensors;
- Sensor-based object detection/recognition;
- Dependability demands and their implementation;
- Security, privacy, and cryptographic algorithms in WSNs;
- Software security for sensor network nodes;
- Secure routing and localization protocols for WSNs;
- Real-time WSN operating systems and reliability and QoS...

Guest Editors

Dr. Daniel Watzenig

Institute of Automation and Control, Graz University of Technology,
Graz, Austria

Dr. Anton Fuchs

Virtual Vehicle Research GmbH, Graz, Austria

Deadline for manuscript submissions

closed (1 March 2021)



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

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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