



Dependable Wireless Sensor Networks for Autonomous Vehicles

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)

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





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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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Message from the Editor-in-Chief

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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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