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## Sensor Fusion and Advanced Controller for Connected and Automated Vehicles

Guest Editors:

**Dr. Boyuan Li**

**Dr. Yafei Wang**

**Dr. Georgios Papaioannou**

**Dr. Haiping Du**

Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editors

For conventional on-road vehicles, due to a lack of adequate sensor information, vehicle dynamics controllers can only rely on the dedicated state estimators. Sometimes the estimation results are not reliable due to the single estimator source. However, autonomous electric vehicles are equipped with a number of advanced sensors such as radar and cameras. The measurements of these additional sensors can be fused into the vehicle state estimators to build a sensor fusion system, which can lead to a large number of highly reliable estimated vehicle states. This enriched vehicle state information can be greatly beneficial to the complex integrated advanced controller design for automated vehicles or automated vehicles in a connected vehicle platoon.

We welcome the original research papers relating the sensor fusion strategy design or vehicle dynamics controller design for connected and automated vehicles. There is a particular interest in papers focusing on how advanced controllers for autonomous vehicles can fully utilize the states estimated from sensor fusion systems to maximise the control performance of automated passenger vehicles or heavy vehicles.



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**Special** Issue



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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

## Message from the Editor-in-Chief

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*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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