

## Special Issue

# Connected and Intelligent Sensors and Smart Systems for Improved Vehicle Autonomy, Efficiency and Resilience

### Message from the Guest Editors

Innovative real-time estimation, prediction and control systems, including artificial intelligence (AI)-enabled smart systems, are increasingly required to optimise vehicle functions, from accurate and resilient multi-sensor vehicle navigation with the ability to autonomously recover from faults to performance and environment monitoring systems to ensure vehicle safety and improve energy and mission efficiency, including factors such as emissions reduction. These systems enable advanced capabilities, such as the enhanced monitoring and control of connected vehicles in complex or uncertain environments. The methods used range from deterministic to Bayesian state and fault estimation and artificial intelligence for the handling of tasks, including fault diagnosis and the reconfiguration of multimode, multi-sensor monitoring and control systems. This Special Issue will bring together papers that particularly describe recent advances in sensor fusion and smart monitoring and/or control systems for increasingly autonomous and connected ground, air and space vehicles. Papers with theoretical, simulation and practical experimental results in this field are all encouraged.

### Guest Editors

Dr. Nadjim Horri

Dr. Toufik Souanef

Dr. Thomas Statheros

### Deadline for manuscript submissions

10 December 2025



## Sensors

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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.

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