

Special Issue

Fault Detection and Isolation, Fault Tolerant Control for Autonomous and Transport Vehicles

Message from the Guest Editor

Autonomous vehicles have captured the attention of multi-disciplinary researchers for a number of years. Considering the safety, comfort and convenience of passengers, there is a pressing need to develop more advanced vehicle state estimation, motion control, and diagnosis technologies. This Special Issue will focus on publishing novel approaches to detecting and localizing the faults of autonomous and transport vehicles. We also encourage submissions on advanced state estimation and vehicle dynamics-based control strategies for autonomous vehicles. Original and innovative research studies from both academic and industrial research teams are welcomed. Potential topics include, but are not limited to: vehicle state estimation chassis control active suspension control fault detection and isolation fault diagnosis and fault-tolerant control vehicle motion control active and semiactive vibration control smart materials and structures

Guest Editor

Dr. Cristina Morel

Energy and Control of Transportation Systems Laboratory, Graduate School of Aeronautical, Aerospace, Automobile, Railway Engineering (ESTACA), 53061 Laval, France

Deadline for manuscript submissions

30 June 2025



Actuators

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 3.9



mdpi.com/si/174964

Actuators
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
actuators@mdpi.com

[mdpi.com/journal/
actuators](https://mdpi.com/journal/actuators)





Actuators

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 3.9



[mdpi.com/journal/
actuators](https://mdpi.com/journal/actuators)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Kenji Uchino
Emeritus Academy Institute, The Pennsylvania State University,
University Park, PA 16802, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2
(Control and Optimization)