

Special Issue

Advanced Vehicle Dynamics and Autonomous Driving Applications

Message from the Guest Editors

Autonomous vehicles (AVs) are revolutionizing the automotive industry, making vehicle dynamics a crucial area of focus in their development and deployment. These vehicles require a deep understanding and management of complex dynamics to ensure optimal safety, comfort, and performance across diverse driving environments. As autonomous driving systems (ADS) evolve, vehicle dynamics becomes an essential component of their design, especially when addressing challenges posed by variable road conditions, unpredictable traffic situations, and vehicle heterogeneity.

This Special Issue aims to explore cutting-edge techniques and methodologies that address the vehicle dynamics challenges faced by autonomous systems. The objective of this Special Issue is to highlight recent advancements and ongoing efforts that contribute to the development of safe, efficient, and reliable autonomous driving systems.

We welcome submissions that explore these topics and look forward to receiving contributions that push the boundaries of vehicle dynamics in autonomous driving applications.

Guest Editors

Dr. Fernando Viadero-Monasterio

Dr. Daniel Garcia-Pozuelo

Dr. Basilio Lenzo

Dr. Pablo de Villeros

Dr. José Ramón Trillo

Deadline for manuscript submissions

31 December 2025



Vehicles

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/228121

Vehicles
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
vehicles@mdpi.com

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





Vehicles

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Mohammed Chadli

Department UFR Sciences and Technologies, Université Paris-Saclay,
91020 Evry, France

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei
Compendex, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2
(Automotive Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 22.1 days after
submission; acceptance to publication is undertaken in 3.6
days (median values for papers published in this journal in
the first half of 2025).