

## Special Issue

# Path Tracking for Automated Driving

### Message from the Guest Editors

Ground vehicle path-tracking control constitutes the cornerstone of fully autonomous driving. Advanced modeling, estimation, and control techniques have been continuously invented and implemented to achieve high-performance path tracking for automated driving, especially under adversary situations. In addition to the safety requirements, energy-saving should also be accounted for during path-tracking controller design to achieve sustainable transportation, especially when autonomous vehicles are deployed on a large scale. Finally, objective and systematic evaluation frameworks to compare the strengths and weaknesses of various path-tracking algorithms are still severely lacking.

This Special Issue is devoted to theoretical breakthroughs, practical solutions, and comprehensive evaluations of novel modeling, estimation, and control algorithms for ground vehicle path tracking. Topics include, but are not limited to, the following: automated driving systems, path tracking for collision avoidance, energy-optimal trajectory following, and path tracking controller evaluation.

---

### Guest Editors

Dr. Zejiang Wang

Dr. Wenshuo Wang

Dr. Anh-Tu Nguyen

Dr. Moad Kissai

Dr. Umar Zakir Abdul Hamid

---

### Deadline for manuscript submissions

closed (25 November 2024)



## Vehicles

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.3



[mdpi.com/si/143491](https://mdpi.com/si/143491)

*Vehicles*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[vehicles@mdpi.com](mailto: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).