



## Dynamics, Control and Simulation of Electrified Vehicles

Guest Editors:

**Dr. Xiang Chen**

College of Energy and Power  
Engineering, Nanjing University  
of Aeronautics and Astronautics,  
Nanjing, China

**Dr. Xiangyu Wang**

State Key Laboratory of  
Automotive Safety and Energy,  
Tsinghua University, Beijing  
100084, China

**Dr. Congzhi Liu**

School of Mechanical  
Engineering, Yanshan University,  
Qinhuangdao, China

Deadline for manuscript  
submissions:

**closed (31 January 2025)**

### Message from the Guest Editors

This Special Issue focuses on advanced vehicle system design, modelling, dynamic analysis, and control methods. Its topics of interest include, but are not limited to, the following:

1. The advanced modelling and dynamic analysis of vehicle systems and their components, including steering, braking, suspension, chassis systems, and power train;
2. The application of advanced observation methods for vehicle key dynamic parameters and verification;
3. The application of intelligent vehicle fusion perception methods, and advanced trajectory planning and control technology;
4. Human-machine co-driving technology, driver modelling, and analysis of human factor engineering characteristics.
5. Intelligent connected vehicles and road vehicle collaborative control technology.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Joeri Van Mierlo**

MOBI—Electromobility Research  
Centre, Department of Electrical  
Engineering and Energy  
Technology, Faculty of  
Engineering Sciences, Vrije  
Universiteit Brussel, 1050 Brussel,  
Belgium

## Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Ei Compendex](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q2 (Automotive Engineering)

## Contact Us

---

*World Electric Vehicle Journal*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/wevj](http://mdpi.com/journal/wevj)  
[wevj@mdpi.com](mailto:wevj@mdpi.com)