



## Advanced Vehicle System Dynamics and Control

Guest Editors:

**Dr. Yujie Shen**

**Dr. Ying Zhang**

**Dr. Junjie Chen**

**Dr. Yuan Li**

Deadline for manuscript  
submissions:

**30 November 2024**

### Message from the Guest Editors

Dear Colleagues,

With the development of vehicle electrification, networking, intelligence, and sharing technologies, advanced vehicle system dynamics, and control methods play a more and more important role in vehicle design. These technologies cover mechanical engineering, electronic and electrical engineering, control engineering, signal processing, and artificial intelligence, and will provide some new directions in the area of new energy-intelligent vehicles. This Special Issue focuses on advanced vehicle system design, modelling, dynamic analysis, and control methods. Topics of interest include, but are not limited to:

- Advanced modelling and dynamic analysis of vehicle systems and their components, including suspension, steering, braking, chassis systems, and power train;
- Advanced control approaches of motion and forces affecting vehicle behaviour;
- Computer-aided modelling and simulation, validation, parameter identification and testing, driver modelling;
- Vehicle interactions with the environment including wheel–rail and tyre–ground behaviour;
- New energy vehicles, intelligent vehicles, and automated traffic systems related to vehicle dynamics.





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 Compindex](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Transportation Science and Technology*) / 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)