

## Special Issue

# Advanced Vehicle System Dynamics and Control

### Message from the Guest Editors

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.

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### Guest Editors

Dr. Yujie Shen

Dr. Ying Zhang

Dr. Junjie Chen

Dr. Yuan Li

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### Deadline for manuscript submissions

closed (30 November 2024)



## World Electric Vehicle Journal

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

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

#### Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /  
CiteScore - Q2 (Automotive Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).