

Special Issue

Vehicle Dynamics Control to Enhance Energy Efficiency and Safety of Electric and Hybrid Vehicles

Message from the Guest Editors

This Special Issue focuses on vehicle dynamics control technologies for both electric and hybrid vehicles. The focus of this Special Issue is on vehicle control strategies, targeting the following topics: (i) reduction in energy consumption; (ii) improvement of vehicle stability and therefore safety; (iii) maximization of tractive performance; and (iv) component preservation and driver comfort. This Special Issue will cover vehicle technologies including electric centralized powertrains as well as distributed motors, standalone or in combination with internal combustion engines. The integration of additional smart actuators (e.g., active differentials, active suspensions, brake-by-wire, steer-by-wire) to the electric/hybrid propulsion system is also contemplated and adds challenges in terms of controller integration and/or co-existence with other systems. The considered domains include the following: optimization, modeling, numerical simulations, hardware/driver-in-the-loop, real-time implementation and experimental testing, and vehicle control for both human-driven and automated vehicles.

Guest Editors

Dr. Davide Tavernini

Centre for Automotive Engineering, University of Surrey, Guildford, UK

Dr. Basilio Lenzo

Department of Industrial Engineering, University of Padova, 35131 Padova, Italy

Deadline for manuscript submissions

closed (30 November 2024)



World Electric Vehicle Journal

an Open Access Journal
Published by MDPI

Impact Factor 2.6
CiteScore 5.0



mdpi.com/si/179571

World Electric Vehicle Journal
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
wevj@mdpi.com

mdpi.com/journal/

wevj





World Electric Vehicle Journal

an Open Access Journal
Published by MDPI

Impact Factor 2.6
CiteScore 5.0



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



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.

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

Author Benefits

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)

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).