

## 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 topologies 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.

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### Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).