

Special Issue

Advanced Vehicle Dynamics Identification, Control and Observer Methods for Autonomous, Electrified Vehicles

Message from the Guest Editors

Nowadays, the main focus of the automotive industry is on the development of fully automated, electrified vehicles. This task poses several challenges, which must be solved before launching the first self-driving vehicle. These challenges can be divided into three main groups:

- Identification of vehicle dynamics, which aims to provide a reliable model of the vehicle.
- Observer design, whose goal is to estimate the unmeasurable states of the vehicle and its battery system.
- Control design, which guarantees the stable and precise motion of the vehicle and maximizes the operation range of the battery system through the optimization of the velocity profile of the vehicle.

Although there are some solutions in the literature, these topics still have some open questions. The goal of this special issue is to provide a platform for research, which addresses one of the mentioned issues.

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Deadline for manuscript submissions

closed (30 April 2025)



World Electric Vehicle Journal

an Open Access Journal
Published by MDPI

Impact Factor 2.6
CiteScore 5.0



mdpi.com/si/177681

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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