

## Special Issue

# Optimal Control Strategies for Electric Vehicles

### Message from the Guest Editors

We are seeking submissions for a Special Issue of *Energies* on the subject of "**Optimal Control Strategies for Electric Vehicles.**" Electric vehicles (EVs) rely heavily on advanced control techniques to ensure high performance, energy efficiency, and safety. A typical electric vehicle powertrain includes energy storage systems, power converters, electrical machines, and associated sensors and actuators. The optimal operation of these components is crucial for achieving maximum efficiency, range, and dynamic performance.

This Special Issue welcomes original articles that address state-of-the-art research, technological developments, and future trends in (but not limited to) the following topics of interest:

- Optimal energy management strategies for EVs;
- Model predictive control and real-time optimization of EV powertrains;
- Optimal control of hybrid and multi-source electric vehicles;
- Trajectory planning and motion control for autonomous and connected EVs;
- Control strategies for battery longevity and thermal management;
- Integration of optimal control with fault-tolerant and robust control frameworks.

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### Guest Editors

Dr. Ahmed Chaibet  
Dr. Moussa Boukhniifer  
Prof. Dr. Ahmed Maida

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### Deadline for manuscript submissions

25 August 2026



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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