## Special Issue

## Optimal Control Strategies for Electric Vehicles

### Message from the Guest Editors

The 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.

### **Guest Editors**

Dr. Ahmed Chaibet

Dr. Moussa Boukhnifer

Prof. Dr. Ahmed Maidi

### Deadline for manuscript submissions

25 February 2026



# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/254220

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41616837734
energies@mdpi.com

mdpi.com/journal/ energies





# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



### **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.

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

### **Author Benefits**

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

CiteScore - Q1 (Control and Optimization)

