

Special Issue

Development of Efficient Internal Combustion Engines and Vehicle Powertrains

Message from the Guest Editor

The goal of this Special Issue on “Development of Efficient Internal Combustion Engines and Vehicle Powertrains” is to highlight how optimization and control techniques are bringing us to the clean and efficient transportation of the future. There are many emerging tools and technologies for both ICE and hybrid electric powertrains that are worth highlighting as they contribute to increased powertrain and transportation efficiency. Moreover, the ability to connect vehicles and infrastructure, now becoming components of the Internet of Things (IoT), enables many opportunities for planning to avoid losses and thereby improving system efficiency. This Special Issue aims at illustrating the challenges and opportunities in vehicle powertrain development. This is done by showcasing the wide range of developments, from hardware and physics to software, through control and optimization to planning of future trajectories, which are ongoing and that rely on optimization and control techniques.

Guest Editor

Prof. Dr. Lars Eriksson

Vehicular Systems, Department of Electrical Engineering, Linköping University, SE-58183 Linköping, Sweden

Deadline for manuscript submissions

closed (31 December 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/72975

Energies

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



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



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 Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 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)