



an Open Access Journal by MDPI

Energy Management of Hybrid Electric Vehicles 2021

Guest Editors:

Dr. Bruno Jeanneret

Planning, Mobilities and Environment Department, Eco-Management of Energy for Transportation Systems Laboratory, Gustave Eiffel University, Campus de Lyon, 69500 Lyon, France

Dr. Rochdi Trigui

Planning, Mobilities and Environment Department, Eco-Management of Energy for Transportation Systems Laboratory, Gustave Eiffel University, Campus de Lyon, 69500 Lyon, France

Prof. Dr. Luis Le Moynes

Institut Supérieur de l'Automobile et des Transports (ISAT), DRIVE Lab, University of Burgundy, UBFC, 58027 Nevers, France

Deadline for manuscript submissions:

closed (25 January 2022)



mdpi.com/si/80236

Message from the Guest Editors

Dear Colleagues,

Urban air quality and climate change are at the heart of environmental concerns. Although internal-combustion-engine vehicles are expected to be replaced in the future by zero-emission vehicles, hybrids play a key role in the transition to all-electric vehicles. They can have many forms (sustaining hybrids, plug-in hybrids and range-extender hybrids), may include various liquid or gaseous (bio) fuels, and concern both on-road and off-road vehicles.

This Special Issue deals with the recent advances in the energy management of all types of hybrid vehicles. The topics of interest include, but are not limited to, optimal control problems, such as multiobjective optimization considering energy consumption, battery ageing and/or pollutant emissions related to standard or alternative fuels. The global impacts on transportation systems, taking into account any form of network connection and grid management, are also considered in this Special Issue.

Dr. Bruno Jeanneret

Dr. Rochdi Trigui

Prof. Dr. Luis Le Moynes

Guest Editors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)