Special Issue

Optimization-Based Energy Management Strategy for Hybrid-Electric Vehicles

Message from the Guest Editor

Vehicle weights have been increasing, initially driven by progress in crashworthiness, and lately by the electrification of the vehicles. This additional weight increases the overall energy demand, resulting in reduced range and increased emissions. Limited raw materials combined with the need to reduce emissions, driven by the socio-political agendas requires manufacturers to devise systems that are more energy efficient. Submissions can address the conceptual and applied research in hybrid-electric vehicles with focus on topics including, but not limited to, the following: Powertrain energy efficient; Impact of parasitic and comfort load on overall powertrain energy management; Impact of battery technology on powertrain management; Vehicle trajectory prediction and energy management; Keywords:Optimization; Hybrid electric vehicle; Intelligent; Adaptive; Predictive; Safe; Secure; Power train; Parasitic load; Comfort load Welcome to contribute.

Guest Editor

Dr. Olivier Haas

Research Institute for Future Transport and Cities, Coventry University Technology Park, Coventry University, Coventry CV1 2TL, UK

Deadline for manuscript submissions

closed (30 September 2020)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/29644

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/journal/electronics

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

MDPI