



Power Electronics Subsystems

Guest Editors:

Prof. Nobukazu Hoshi

Department of Electrical
Engineering, Tokyo University of
Science, 2641 Yamazaki, Noda-
shi, Chiba-ken 278-8510, Japan

nhoshi@rs.noda.tus.ac.jp

Dr. Kimimori Hamada

Toyota Motor Corporation, Japan

kimimori_hamada@
mail.toyota.co.jp

Deadline for manuscript
submissions:

25 February 2019

Message from the Guest Editors

The automotive industry is developing a range of electrically-powered, environmentally friendly vehicles such as hybrid vehicles (HV), plug-in hybrid vehicles (PHV), full electric vehicles (EV), and fuel cell vehicles (FCV) to help reduce tailpipe CO₂ emissions and prevent air pollution. This is driving vehicle electrified power proportion system development and research activities both in academia and industry. However, in order to enhance the full performance and cost reduction of such electrified powered vehicles, we are in no doubt that the power electronics researchers and engineers who are developing high performance power electronics subsystems will have to contribute to expansion of the whole vehicle performance and usability for customers, simultaneously. The research fields and topics for this Special Issue include all power electronics-related technologies other than vehicle proportion systems. We define a power electronics system as a system handling electric power of more than approximately 1 kilo watt. We propose that this Special Issue will cover all areas of power electronics subsystems and their components, for example, systems such as charging systems, high voltage battery systems, subsystems with motor(s) and electric power conversion systems and components such as power semiconductor devices, power modules, passive components, tools, sensors, connectors, cables, relays, circuits topologies, algorithms and software. Vehicle type is not limited, namely this special issue accepts subsystems for both conventional vehicles and electrified vehicles. And furthermore, system voltage is not also limited, namely all 12V, 48V and HV are welcome.





World Electric Vehicle Journal

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Joeri Van Mierlo

Mobility, Logistics and
Automotive Technology
Research Centre (MOBI), Vrije
Universiteit Brussel, Pleinlaan 2,
Brussel 1050, Belgium

Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal aims to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

Author Benefits

Open Access: free for readers, free for authors.

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 4.4 days (median values for papers published in the first six months of 2018).

Recognition of Reviewers: reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.

Contact us

World Electric Vehicle Journal
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/wevj
wevj@mdpi.com