Special Issue

Intelligent Energy Management System for Electric Vehicles

Message from the Guest Editors

Compared with an internal combustion engine vehicles, new-energy EVs are a promising renewable technology for a sustainable energy future. However, the relatively short driving range has been the main barrier for prospective customers. Today, onboard navigation systems, vehicle-to-vehicle, and vehicle-to-x in modern connected vehicles help to gain traffic information over the preview route segment, which opens up unprecedented opportunities for improving energy efficiency. Thus, the combination of eco-driving and energy management in powertrains makes intelligent energy management systems for EVs a hot topic in academia and the automotive industry. The main aim of this Special Issue is to seek high-quality submissions that highlight intelligent EMS. The topics of interest include but are not limited to:

- Power/torque split for EVs and HEVs
- Eco-driving considering upcoming traffic
- EMS considering battery health and driving range
- Energy-efficient control for electric drives in EVs
- EMS concerning the uncertainty of energy models
- Connoted and automated EVs
- Learning-based EMS
- Real-time model predictive control in EMS

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Deadline for manuscript submissions

closed (28 February 2022)



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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

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