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Intelligent Energy Management System for Electric Vehicles

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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