batteries

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Battery Integration and Operation in Electro-Mobile Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (20 May 2018)

Message from the Guest Editor

Dear Colleagues,

This Special Issue of Batteries focuses on several aspects regarding battery integration and operation in electro-mobile applications. Topics of interests include, but are not limited to:

- Pack design, failure mitigation and thermal management of batteries
- Battery-management-systems (BMSs), e.g., dissipative and non-dissipative balancing topologies and strategies, centralized or distributed configurations, etc.
- On and offline diagnostic, prognostic and condition monitoring methods on batteries
- Power electronic converters for batteries
- Energy management strategies in hybrid electric applications
- Fast charging topologies, concepts and influence on battery performance
- Battery lifetime investigation based on specific mission profiles and strategies
- Experiences on emerging batteries, e.g., Li-S and Mg-ion batteries

Electro-mobile applications include hybrid and electric vehicles, buses, trucks, trains, ferries, airplanes, electric bikes, drones and other mobility solutions.

Assoc. Prof. Erik Schaltz
Guest Editor

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