Battery Management and State Estimation

Message from the Guest Editor

Dear Colleagues,

Together with falling prices and technology improvements, battery systems and especially lithium-ion battery systems are gaining importance and market share in various applications. In parallel to the work aiming at battery technology improvements and cost reduction, there is currently a great deal of research in order to improve battery management system (BMS) and accuracy of battery state estimation. Therefore, this Special Issue is focused on recent progress and developments in battery management and state estimation.

Potential topics include, but are not limited to:

- New architectures and progress in battery management systems;
- New methods of SOC, SOH, SOF, RUL estimation;
- Battery diagnosis and prognostic methods;
- Lifetime estimation and modeling of battery degradation;
- Safety concerns;
- Optimal battery control and management;
- Battery thermal management;