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Recent Advances in Battery Management Systems

Collection Editor:

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Message from the Collection Editor

Dear Colleagues,

Four major pillars drive advances in battery energy storage: (1) materials science and engineering, including electrochemistry, which enables new battery types and variants to produce a better performance at the cell level; (2) battery design and manufacturing technology, which enables reliable and cost-effective battery modules and packs; (3) battery management systems, which enable the safe and effective operation with an optimum life-cycle cost; and lastly (4) application technologies, which generate the demand and requirements for battery systems. This particular topical collection shall focus on the Battery Management System (BMS). A BMS enables a battery system to be smart, which is important to maximize the value of the battery energy storage system. BMS technology varies in complexity and capabilities. Their topologies may be centralized, distributed, or modular. Some BMSs employ edge processing, while some incorporate computational and machine intelligence and are capable of learning.

I welcome you to contribute your articles to this important topic of Advances in Battery Management Systems.

Prof. Dr. King Jet Tseng
Collection Editor

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Message from the Editor-in-Chief

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