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Advanced Control and Optimization of Battery Energy Storage Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (15 April 2024)

Message from the Guest Editor

Dear Colleagues,

To meet the ever-increasing demand for energy storage and power supply, battery energy storage systems (BESSs), typically consisting of batteries, power electronics, and control systems, are being applied to grid-level energy storage and electric vehicles. Among these BESS applications, numerous benefits have been demonstrated so far, e.g., facilitating the integration of renewable energy with the power grid, improving grid stability and reliability, and promoting transportation electrification. However, there are various research gaps in the planning, operation, maintenance, and control of BESSs, regarding safety, reliability, scalability, cost effectiveness, battery lifespan, etc. Therefore, this Special Issue calls for original and innovative research and review papers to contribute to the advanced control and optimization of BESSs from the perspective of algorithm design or hardware implementation.

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Message from the Editor-in-Chief

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