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Hybrid Energy Storage Systems

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Deadline for manuscript submissions:
closed (30 April 2019)

Message from the Guest Editor

Hybridization of energy storage systems has evolved as a viable solution to problems stemming from inadequacy of individual energy storage devices in tackling power and energy requirements in different applications. Reported studies on HESS have focused on structure, power/energy management algorithms, optimal sizing, economic assessment, and impact on life span of system components.

The topics of interest in this Special Issue on hybrid energy storage systems include (but are not restricted to):

- HESS applications in mobile and stationary systems
- HESS structure/topology
- HESS control
- HESS optimal sizing and optimal management
- HESS in electrified powertrains
- HESS in microgrids
- Short-term and long-term economic assessment of HESS
- Life span assessment of HESS components
- HESS modeling
- HESS stability analysis
- HESS design based on field data
- HESS efficiency improvement

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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