Special Issue

Recent Advancement in Electric Vehicles

Message from the Guest Editors

Electric vehicles (EVs) are the most essential components of smart transportation systems. Limited driving range, prolonged charging times, and inadequate charging infrastructure are among the few key barriers to EV adoption. Accurate energy consumption prediction under real-world driving conditions is essential for alleviating the 'range anxiety' that can support optimal battery sizing, energy-efficient route planning, and charging infrastructure deployment and operation. In addition, improper layout of charging facilities and illogical charging arrangements cause unexpected queuing of EVs for some facilities, while for others, it means they remain unvisited. To tackle these issues, it is necessary to accurately predict EVs' driving range and charging duration time. This Special Issue is focused on recent advances in EVs, and includes but is not limited to the following topics: Modeling and optimization of EVs; energy consumption; driving range; charging duration time; charging behavior; charging demand; advanced charging technologies; deployment of charging stations.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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