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Recent Advancement in Electric Vehicles

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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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Special Issue



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Message from the Editor-in-Chief

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