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Advanced Coordinated Optimization Strategy of Electric Vehicle and Smart Grids

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Message from the Guest Editors

Dear Colleagues,

A shift in society towards decarbonization and environmentally friendly lifestyles has brought many challenges for the operation and control of electrical power systems. This Special Issue aims to gather and present original contributions and reviews focused on advanced optimization strategies related to electric vehicle operation, charging, and utilization within smart grids.

- Electric vehicle operation modeling;
- Battery charging modeling;
- Electric vehicle operation and charging predictions;
- Optimization of electric vehicle fleet coordination;
- Coordination between transportation and electrical power system sectors;
- Optimization of electric vehicle charging;
- Impact of different electric vehicle charging strategies on electrical power systems;
- Advanced strategies of smart grid operation and control;
- Vehicle-to-X concepts;
- Cooperation of renewables and electric vehicle charging stations.

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Special Issue



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Message from the Editor-in-Chief

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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