Special Issue

Advanced Operation and Control of Electrical Power Systems in Transportation Applications

Message from the Guest Editors

The global net-zero emission target brings ever-lasting challenges to all areas of the transportation sector. One of the solutions to net-zero in transportation is electrification, requiring an onboard electrical power system. Advanced control and operation techniques for these electrical power systems are always essential to achieving environmentally friendly and high-performance transportation systems with good reliability, robustness, and efficiency. With the rapid development of data science and computing technology, emerging technologies, such as artificial intelligence and digital twin, have attracted much attention and are still growing in recent years. These technologies have accelerated the development of both data-based and model-based intelligent algorithms in the control and operation of power systems. This provides potential solutions for more reliable and green electrical power systems for transportation applications. This Special Issue aims to present and disseminate the most recent signs of progress in the advanced control and operation techniques of the electrical power system on all types of transportation platforms.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/150275

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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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