Special Issue

Advanced Technologies for Electrified Transportation and Robotics

Message from the Guest Editors

Electrified transportation and robotics play an important role in carbon neutrality and smart cities. As their main energy consumption and harvesting components, electric propulsion systems and charging systems need advanced technologies. Therefore, this Special Issue focuses on reviews and technical studies on electric machine design and control, charging station technologies, and wireless power transfer, with regard to these electric propulsion systems and charging systems. Potential topics include, but are not limited to, the following:

- High-efficiency and high-power-density drive circuit and control strategy design;
- Design, analysis, and optimization of rotating/linear permanent magnet machines;
- Fault-tolerant machine topology and winding design;
- Monitoring, failure mode analysis, and fault diagnosis of electric propulsion system;
- High-efficiency power converter and rectifier system;
- Integrated design consideration of motor and drive circuit;
- Power converter for charging station;
- Emerging wireless energy/power transfer technology for electric vehicles.

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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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