Special Issue

Artificial Intelligence for Power Electronics and Energy Systems Applications

Message from the Guest Editors

In modern society, artificial intelligence (AI) is being used in various industries and has brought about significant benefits. With this in mind, the is inviting submissions to a Special Issue of *Energies* on the topic of "Artificial Intelligence for Power Electronics and Energy Systems Applications." It is crucial to predict how AI can be used to accelerate a more equitable energy transition throughout the industry and how our trust in this technology can be strengthened. In the energy sector, research on how to efficiently manage and utilize energy sources for power electronics-based distributed energy resources (DERs) is required. In addition, it is expected that the role of AI will increase in the construction of large-scale infrastructures, such as the management of the energy demand for transportation and buildings, and the construction of smart cities and smart grids. In particular, the efficient energy use and reduction using AI in autonomous vehicles are expected to make a significant contribution to increasing driving distance.

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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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