Special Issue

Application of Artificial Intelligence in Power and Energy Systems

Message from the Guest Editors

AI is capable of boosting the integration or renewable energies by predicting energy output, managing smart grids that adjust to supply and demand changes, predictive maintenance and dealing with extreme disasters. This Special Issue emphasizes recent advances in these areas and provides a platform for researchers and practitioners to share knowledge and discuss the latest developments. It aims to delve into various aspects of AI and power & energy systems. The topics of interest include, but are not limited to, the following: (1) Energy generation forecasting using AI; (2) AI based energy system dispatch and scheduling; (3) Data-driven power & energy system state estimation; (4) Predictive maintenance in power & energy systems using AI; (5) Data analysis in cyber-physical system; (6) AI for fault detection and diagnosis in power & energy systems; (7) AI enhanced demand response; (8) AI based methods of power & energy systems to deal with extreme disasters; (9) Environmental impact assessment using AI; (10) Other topics related to AI and power & energy systems.

Guest Editors

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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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