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Artificial Intelligence and Machine Learning New Concepts in SMART Energy Systems

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Message from the Guest Editors

Dear Colleagues,

Integrating various energy sectors into smart energy systems is considered to be a potential paradigm for offering an all-encompassing and optimal solution for a feasible, reasonably priced, and sustainable energy system in the near future. Relatively new ideas in the fields of energy, artificial intelligence (AI) and machine learning (ML) have the potential to be employed as useful tools in the operation of systems, using previous and anticipated future events to enhance system efficacy. The application of AI in energy systems has garnered increasing attention in recent years. Energy systems include various types of machinery, structures, vegetation, and even intelligent energy (such as electrical grids). In other words, they are any system that requires energy in order to function, preserve a given state, or move energy between points. Possessing a smart management system that can anticipate future events to run grid assets to their maximum capacity or respond to abrupt changes in inputs (such as rising or falling demand) may be extremely helpful when it comes to transmitting or consuming energy.

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Message from the Editor-in-Chief

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