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Application of Advanced Machine/Deep Learning in Energy Economics, Management, and Sustainability

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Message from the Guest Editors

In recent decades, electrical power systems have been more vulnerable than before, mainly due to grid modernization and the high penetration of renewable energies. Moreover, smart sensors have been integrated into the network that generate a huge amount of data, which can cause networks to be more prone to cyber-attacks. Therefore, advanced techniques and technologies are required to detect and mitigate attacks, as well as take advantage of these data to increase the reliability, resiliency, sustainability, and efficiency of the entire system.

On the other hand, machine/deep learning techniques have proven their high capability in data processing and classification. By using advanced artificial intelligence techniques, we can have real-time processing of the data to predict unusual events in advance. This can help the operators in real-time monitoring and managing of the system to prevent any severe blackout, but also to increase the sustainability of the network.

The aim of this Special Issue is to investigate the application of advanced machine/deep learning techniques in electrical power management, economic development, and sustainability

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Message from the Editor-in-Chief

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