AI for Cyber-Physical Power Systems Operation and Control

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Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editors

Existing power networks are changing rapidly due to the large deployment of non-synchronous integration. Thus, requiring innovative methods that guarantee the system stability. Moreover, Artificial Intelligence (AI) developments are no longer a myth for industry and are the current frontier of research with enormous possibilities of application in power systems. This migration to AI implementation requires the combination of different research areas and a deep study that helps the Transmission/Distribution System Operators (TSO/DSOs) to provide continuous operation and control.

Authors are welcome to contribute in the following topics:

- Low-inertia power systems

- Power system dynamics

- Applied power systems control theory and Machine Learning

- Power dominated converter systems

- Recent advancements in DC/AC microgrids

- Renewable energy

- Anomaly detection

- Smart power technologies

- Data-driven methods

- Optimization in power and distribution systems

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Special issue

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Message from the Editor-in-Chief

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