



## Machine Learning Applications in Predictive Monitoring of Power Grid Stability and Resiliency Enhancement

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### Message from the Guest Editors

Dear Colleagues,

The Special Issue aims to collect contributions targeted towards, but not limited to, the following main topics:

- Machine Learning and Artificial Intelligence algorithms for Power Systems Monitoring and Predictive Monitoring purposes;
- Power Systems Sub-Synchronous and Low-Frequency Oscillation (LFO) phenomena identification and mitigation using Machine Learning-based techniques and inter-area and local modes;
- Machine Learning methods enhancing the Transmission and Distribution Network infrastructure resilience, also with respect to cyber attacks;
- Renewable Energy Sources (RES) integration enhancement using Artificial Intelligence methods;
- Renewable energy system's performances prediction using ML and AI;
- Short-Term Load Forecast (STLF) and renewable generation prediction by using Deep Learning (DL), Transfer Learning, and Reinforcement Learning (RL) methods;
- Machine Learning algorithms for power systems analysis and control;
- Severe weather conditions forecast using Artificial Intelligence;

# Special Issue



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## Message from the Editor-in-Chief

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