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Machine Learning in Power System Dynamic Security Assessment

Guest Editor:

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Deadline for manuscript submissions:

closed (31 March 2022)

Message from the Guest Editor

This Special Issue will deal with novel approaches to the power system dynamic security assessment, and related power disturbance issues, which are based on the applications of machine learning, deep learning, and reinforcement learning techniques. It will also deal with problems related to advanced data acquisition (wide-area measurement systems) and data-sets preparation (statistical processing, features engineering, encoding, embedding). Topics of interest for publication include, but are not limited to, applications of machine learning, deep learning, and reinforcement learning in the following:

- Power system dynamic security assessment;
- Transient stability assessment;
- Small signal stability analysis;
- Voltage stability assessment;
- Frequency stability assessment;
- Power quality disturbance analysis;
- Advanced metering, data acquisition, and monitoring;
- Analysis of electrical network vulnerabilities and threats;
- Intelligent monitoring and outage management (self-healing grids);
- Dynamic security assessment of mixed AC-DC power systems;
- Impact of new technologies (FACTS/HVDC) on power system stability;
- Stability and security analysis of future networks.



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Special Issue



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Message from the Editor-in-Chief

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