Special Issue

Machine Learning in Power System Dynamic Security Assessment

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.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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