Special Issue

Stability Issues and Challenges in Modern Electric Power Systems

Message from the Guest Editor

This Special Issue is focused on power system stability aspects in modern electrical power systems with a high penetration level of converter-interfaced technologies. Worldwide, electric power systems have experienced significant reformation, which has been particularly affected by an increased penetration level of power electronic converter interfaced technologies. These converter-interfaced technologies are mostly used for renewable energy sources such as wind, photovoltaic generation, energy storage systems, etc. Moreover, converter technologies are also used in high voltage direct current (HVDC) transmission systems, flexible ac transmission system (FACTS), and power electronic loads. In fact, the fast response of converters will affect the dynamic response and behavior of electric power systems. This Special Issue invites original papers addressing the various topics related to power system stability issues and challenges in modern electric power systems. Furthermore, a wide variety of contributions are welcome from converter-interfaced generations and technologies.

Guest Editor

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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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