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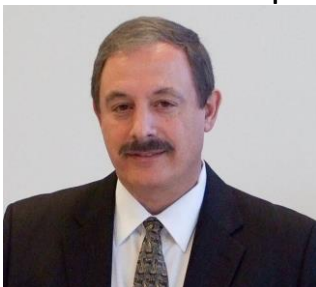
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Important Dates

Full paper Submission

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Tuesday, Nov. 15th, 2016

Publication of Special Issue

Monday, Jan. 16th, 2017

China Electric Power Research
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Call for Papers

Special Issue on "Developing Power Systems with High Share of Intermittent Renewable Energy"

Wind power (WP) and photovoltaic power (PV) are experiencing fast development around the world. In 2015, over 33% of power demand was supplied by renewable energy in Germany. It is reported that on July 11, 2015, the wind power generation reached 140% of the whole country's demand in Denmark. High share of renewable energy will be reached by many countries in the future. The integration of high share renewable energy will fundamentally change the configuration of the power system. The generation-load balancing of power systems no longer fully relies on the controllable generator but involves the intermittent generator, which will raise the concerns of power system security issues, ancillary services adequacy issues, and economic issues. High penetration renewable energy integration brings significant challenges to the power system. Failing to address these challenges may result in large amounts of WP and PV curtailment and jeopardize the economics of renewable energy. This special issue is intended to provide innovative insights on future power systems accommodating high penetration renewable energy. The peer-reviewed articles will showcase potentially methodologies and technologies applicable for the new configuration of the power system integrating high penetration renewable energy. The objective is to identify researches that are likely to lead the research in this field the in the next 20 to 30 years.

Topics of interest of this Special Issue include, but are not limited to the following aspects of developing power systems with high share of intermittent renewable energy:

- Uncertainty modeling and analysis of renewable energy
- Distribution level integration of renewable energy
- Transmission level integration of renewable energy
- Renewable energy forecasting technologies
- Power system planning and operation for renewable energy accommodation
- Power system flexibility for accommodating high penetration of renewable energy
- Reliability assessment under high penetration renewable energy integrated power systems
- Power system protection and control with high penetration renewable energy
- Electricity market design for high penetration renewable energy integration
- Multiple energy systems integration for renewable energy accommodation
- Stochastic optimization technologies for renewable energy integration
- Big data technologies in renewable energy integrated power system analysis

This Special Issue solicits original work on developing power systems with high share of intermittent renewable energy that must not be under consideration for publication in other venues. Full papers are solicited for reviews. Authors should refer to the CSEE JPES author guidelines at: <http://www.csee.org.cn/JPES/>. For information about content and formatting of submissions. Authors can download the template at:

http://www.csee.org.cn/data/CSEE_JPES/CSEE_TEMPLATE.docx

Submission Format and Guidance

All submitted papers must be clearly written in excellent English and contain only original work, which has not been published by or is currently under review for any other journal or conference. A detailed submission guideline is available as "Guide to Authors" at: <https://mc03.manuscriptcentral.com/cipes>

All manuscripts and any supplementary material should be submitted via the ScholarOne system of CSEE JPES. The authors must choose the Manuscript Type as "SI: Developing Power Systems with High Share of Intermittent Renewable Energy" while submitting the paper. The CSEE JPES website is located at: <http://www.csee.org.cn/JPES/>

All papers will be peer-reviewed by three independent reviewers. Requests for additional information should be addressed to the guest editors.