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Interactions of Electric Grids, Wind and Photovoltaic Power Generation, Energy Storage and Power Generation Forecasting

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Deadline for manuscript submissions:

closed (20 October 2022)

Message from the Guest Editors

Dear Colleagues,

Modern power systems exhibit increased performance while CO₂ emitions are reduced by using renewable energy sources such as wind, photovoltaic, and storage systems. In this context, the interactions between electric grids, frequency regulations in micro grids, and control techniques for power and energy systems connected to the grid have become interesting topics for power and energy researchers.

This Special Issue will deal with novel optimization and control techniques for power and energy systems. Topics of interest for publication include, but are not limited to:

- Predictive control application models;
- Energy storage systems in power systems;
- Microgrid operation control and stability;
- Intelligent approaches to power systems;
- Frequency regulation in microgrids;
- Power electronics control methods;
- Power electronics applications for wind, photovoltaics, and storage.

Prof. Dr. Alfeu J. Sguarezi Filho Dr. Lasantha Meegahapola Guest Editors



Specialsue







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Message from the Editor-in-Chief

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