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Modeling, Optimization, and Control in Smart Grids

Guest Editors:

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modeling, application, optimization, communication, control, and also planning and management of smart grids. Topics of interest for publication include, but are not limited to:

- Modeling of control strategies for a robust smart grid;
- Smart grids, optimization, and artificial intelligence;
- Communication and control based on machine learning methodologies;
- Algorithms for modeling, optimization, and control;
- Wide area for monitoring, control, and protection;
- Advanced modeling approaches;
- Integration of renewable generation, distribution, and energy storage;
- Microgrids, distributed energy supply, and electricity markets;
- Energy management systems, demand response, efficiency, and challenges;
- Integration of electrical vehicles in smart grids;
- Smart grid protection/security;
- Distributed communications and sensing/metering in a smart grid.

Prof. Dr. Paulo Coelho

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Guest Editors

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Message from the Editor-in-Chief

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