Special Issue

Modeling, Optimization, and Security of Modern Energy-Water Nexus with High Penetration of Renewable Energy Sources

Message from the Guest Editors

This Special Issue aims at acting as a bridge between research and development groups for state-of-the-art application of intelligent methods in modeling, optimizing, controlling, and securing smart grids. Researchers from academia, industry, and government are invited to submit their original and unpublished work to this Special Issue. The topics of interest include but are not limited to:

- Dynamic modeling and stability analysis of energywater systems with high penetration of renewables and storage;
- Control of power systems in presence of uncertainty from renewables:
- Optimization problems in modern water and energy systems;
- Demand side management in modern power grids and water distribution systems with high penetration of renewables and storage;
- Modeling and detection of cyberattacks in smart grids and water distribution networks;
- Application of renewable sources to building energy management;
- Modeling and analysis of loads in buildings for economic dispatch in smart grids;
- Application of artificial intelligence in addressing modern power grid issues;
- Performance of smart homes in smart city;
- Smart homes in power markets.

Guest Editors

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Dr. Faegheh Moazeni

Deadline for manuscript submissions

closed (15 October 2021)



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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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