Special Issue

New Trends in Computing Science for Smart Grid

Message from the Guest Editors

Smart grids transform the traditional power grid into a highly dynamic, interactive, and efficient system. This transformation is in part driven by advances in computer science, including digital signal processing, artificial intelligence, machine learning, big data analytics, and cybersecurity. The Special Issue on "New Trends on Computer Science for Smart Grids" seeks original and high-quality research contributions exploring the latest advancements in computer science and their applications in various aspects of smart grids, addressing the following topics of interest which include but are not limited to:

- Artificial intelligence and machine learning for smart grid applications;
- Big data analytics for smart grids;
- Optimization techniques for smart grids;
- Cybersecurity for smart grids;
- Communication and networking technologies for smart grids;
- Edge computing for smart grids;
- Control and stability for smart grids;
- Power quality monitoring and assessment on smart grids.

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Deadline for manuscript submissions

closed (30 April 2025)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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