

Special Issue

Smart Grids and Microgrids for Smart Cities: Integration and Optimization

Dear Colleagues,

The rapid growth of urban populations and the increased use of Renewable Energy Sources (RES) in cities demand a transformation of the energy system. In this sense, modern cities are transition points where traditional electrical networks are evolving into Smart Grids, becoming dynamic, resilient, and highly automated infrastructures. However, this transition still faces challenges, particularly at the low-voltage distribution level, with the emergence of self-sufficient consumption models, such as microgrids and energy communities.

In this context, the objective of this Special Issue is to compile state-of-the-art research on the integration, optimization, and management of smart grids and microgrids within smart cities. We welcome contributions leveraging data-driven approaches, artificial intelligence, and optimization techniques to enhance grid intelligence, resilience, and operational efficiency.

We look forward to receiving your contributions.

Keywords:

Microgrids, Distributed energy resources (DERs), Distribution Networks, Grid optimization, Smart cities.

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