



Modeling and Analysis of Active Distribution Networks and Smart Grids

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Message from the Guest Editors

Dear Colleagues,

Renewable energy sources (RESs) will constitute the backbone of future energy systems and, due to their different characteristics and dependence on geography and climate, they will be scattered throughout the power system. In this context, a vast amount of distributed energy resources (DERs), such as large- and small-scale RES power plants, energy storage systems, electric vehicles, and smart loads will be integrated into low and medium voltage distribution networks, posing unprecedented challenges to both transmission and distribution system operators (TSOs-DSOs).

The main objective of this special issue is to seek quality publications that highlight recent advances in the areas of monitoring, modelling, analysis, control, optimization, and simulation of ADNs as well as quality publications targeting to quantify the impact of converter-interfaced DERs on TSO-DSO interactions, system stability margins, and dynamic performance of active distribution networks ADNs.

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Message from the Editor-in-Chief

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