Special Issue

Data Science Applications in Medium/Low Voltage Smart Grids

Message from the Guest Editors

Smart grids, and especially smart distribution networks, has received much attention in the past decade. As the transformation of the electricity sector advances, increased attention is given to the medium- and low-voltage components of electricity supply. This transformation is driven by technological advancements, including distributed generation from renewable energy sources, the electrification of loads, and the integration of energy storage. A successful transition requires the combined effort of professionals of various backgrounds and the proper use of data that are available in unprecedented volumes.
Important theoretical and practical advances in the data science field contribute largely to the mentioned issues. Data mining, machine learning, and forecasting are the inter-disciplinary areas that are being integrated into everyday power system operation successfully. The Special Issue aims to present these recent advances, with emphasis on the results that are contributing to this field not only from a scientific perspective, but also on those that demonstrate a real-life application (pilot, demonstration, field test or mature phase) of these tools.

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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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