# **Special Issue**

# **AI Applications for Smart Grid**

### Message from the Guest Editors

Artificial intelligence (AI) technologies are revolutionizing smart grids. They are being extensively explored for their potential to transform the way that we generate, distribute, and consume electricity. This Special Issue will bring together cutting-edge research and innovative applications of AI for the smart grid. It is expected to highlight the significant potential of data analysis, pattern recognition, predictive modelling, etc. Meanwhile, various powerful AI applications in smart grids raise concerns and challenges, such as interpretability, collapse, data dependency, etc. This Special Issue will explore the latest advancements in AI applications for smart grids. We are particularly interested in submissions that focus on the following areas:

- Al applications in smart sensing;
- Al applications in fault location and protection;
- Al applications in power markets and trading;
- Al applications in demand-side management;
- Al applications in integrated energy systems;
- Al applications in transportation electrification;
- Al applications in secure energy storage systems.

We also encourage submissions in other, related areas.

#### **Guest Editors**

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Deadline for manuscript submissions

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

#### Editor-in-Chief

Prof. Dr. Flavio Canavero Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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