Special Issue

Machine Learning and Artificial Intelligence into Analysis, Control, and Applications of Renewable Energy Systems

Message from the Guest Editors

In recent years, machine learning, also known as artificial intelligence, has succeeded in the image processing and language processing fields, among others. These of these technologies have had several successful applications in the power and renewable energy fields. This Special Issue intends to seek interdisciplinary topics at the junction between renewable energies and computer science, especially in artificial intelligence or machine learning. Topics of interest include, but are not limited to:

- The application of power electronics applications in renewable sources of energy
- Wide Band Gap (WBG) semiconductor devices such as SiC and GaN in renewable sources of energy
- Wind forecasting/power using machine learning, deep learning, and artificial intelligence
- Solar forecasting/power using machine learning, deep learning, and artificial intelligence
- Applications of renewable sources of energy such as solar and wind in computer science fields such as bioenergy, bioinformatics, etc
- Solar home systems
- Building Energy Management (BEM)
- Demand response for grid stability and resiliency
- Net-zero energy buildings
- Distributed Energy Management Systems (DERMS)

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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 guest-edited by leading experts in selected topics of interest.

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