



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

Guest Editors:

**Dr. Xingang Fu**

Department of Electrical  
Engineering and Computer  
Science, Texas A&M University-  
Kingsville, Kingsville, TX 78363,  
USA

**Dr. Letu Qingge**

Department of Computer  
Science, North Carolina A&T  
State University, Greensboro, NC  
27411, USA

**Dr. Abdullah Al Hadi**

Department of Electrical and  
Computer Engineering, University  
of Kentucky, Lexington, KY 40506,  
USA

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### 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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## Editor-in-Chief

### Prof. Dr. Flavio Canavero

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

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*Electronics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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