

## Special Issue

# Applications of Artificial Intelligence in Renewable Energy

### Message from the Guest Editors

Dear colleagues, There are numerous complex, nonlinear interactions among multiple parameters controlling the integration of renewable energy into the electric grid. Artificial Intelligence approaches are being developed to produce more accurate predictions of renewable energy, including their generation and impacts on the electric grid such as net load forecasting, line loss predictions, maintaining system reliability, integrating hybrid solar and battery storage systems, and predicting equipment failure. Both fundamental and applied research are leveraging artificial intelligence to revolutionize the energy industry to utilize the capabilities of renewable energy. This Special Issue seeks to contribute to advancing the generation capacity and integration of renewable energy into the electric grid with artificial intelligence. We invite papers on innovative Artificial Intelligence applications to renewable energy forecasting and integration, including reviews and case studies.

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### Guest Editors

Prof. Dr. Sue Ellen Haupt  
Dr. Tyler C. McCandless  
Dr. David John Gagne II

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### Deadline for manuscript submissions

closed (31 March 2020)



## Energies

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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

Prof. Dr. Enrico Sciubba  
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