

## Special Issue

# Advanced Control Systems in Wind Energy: Optimizing Performance from Component to Grid Integration

### Message from the Guest Editor

This Special Issue targets an overview of the most recent control methods and research results at various levels—turbine, system and grid—to help considerably enhance all aspects of wind power. In this Special Issue, relevant contributions that summarize and present the most recent insights concerning the control strategies and technologies that are essential for improving the efficiency, reliability and grid compatibility of wind energy systems are sought. Topics of interest for publication include, but are not limited to, the following:

- Blade-Level Control;
- System-Level Control;
- Farm-Level Control;
- Grid Integration Control;
- Predictive and Adaptive Control;
- Decentralized and Hierarchical Control Systems;
- IoT and Edge Computing in Wind Energy Control;
- Energy Storage for System Integration of Control.

Your input in these areas would substantially enhance our knowledge and abilities in maximizing the performance of wind energy systems from the blade to the grid. We look forward to your innovations and insights.

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### Guest Editor

Dr. John Hall

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### Deadline for manuscript submissions

10 January 2026



## 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

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