## **Special Issue**

## Advances in Wind Turbine Optimization and Control

### Message from the Guest Editors

This Special Issue will compile the latest research achievements in the field of wind turbine optimization and control. Topics include but are not limited to:

- Environmental loads for wind power development:
   Determination of control loads for marine environments, high-altitude regions, and seismic zones;
- Optimization of wind turbine system selection:
   Foundation selection, tower selection, and material selection:
- Dynamic analysis of wind turbine systems: Integrated dynamic analysis techniques for blades, towers, and foundations; random response; and fatigue damage and life analysis;
- Monitoring systems and fault diagnosis: Development of advanced monitoring technologies for real-time monitoring and fault diagnosis of wind turbine operational status;
- Overall reliability analysis of wind turbine systems:
   Assessment of long-term operational reliability and safety of wind turbines under extreme environmental conditions:
- Vibration control technologies for wind turbine systems: Including wind turbine servo control strategies, active and passive control strategies for wind turbine foundations, etc.

### **Guest Editors**

Prof. Dr. Dayong Zhang

Prof. Dr. Jun Xu

Dr. Benrui Zhu

### Deadline for manuscript submissions

closed (11 August 2025)



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### 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.

### Editor-in-Chief

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