Special Issue

Wind Energy Generation and Wind Turbine Models

Message from the Guest Editors

Among different renewable energy sources, wind power shows great promise due to its relatively high technological readiness, abundant availability, and relatively low environmental footprint. Energy harvesting via conventional wind turbines is achieved by converting the kinetic energy of wind into mechanical power through blade rotation, and then into electrical power through generators. In the context of the rapidly developing artificial intelligence technology, most theories and methods have been widely introduced into the energy and power industry, especially in the new energy wind power industry, including sensing, modeling, computing, storage, and transmission. If intelligent control technology is reasonably integrated into wind power automation control systems, it can promote the sustainable and stable development of the industry. This Special Issue aims to present and disseminate the most recent advances related to the theory, design, modelling, application, control, operation, and maintenance of wind turbines.

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Deadline for manuscript submissions

closed (14 June 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/119933

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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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