Special Issue

Optimal Control of Wind and Wave Energy Converters

Message from the Guest Editors

Nowadays, it is difficult to imagine a society where, in the energy mix, the electricity produced from renewable sources will not experience a significant increase. In this area, the capture and transformation of air (wind) and sea (wave) current energy is the most efficient method, as it reduces the footprint on the ground, has minimal negative effects in the construction phase, and has an overall positive environmental impact. Regarding wind exploitation, this trend can be traced for onshore as well as offshore wind energy production. Independent of energy source, wind, or wave, the first condition is to identify a location with the right potential, followed by different site assessments, technical planning, and a huge weight of bureaucratic approval and the authorization process. The offshore area has become one of the leading renewable energy areas, driving change in energy production. Once the wind and wave turbines operate, it is a big challenge to ensure the operation of the turbines according to the wind power or wave characteristics. Therefore, ensuring operation at the maximum power point (MPP) represents a continuing challenge.

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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.

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