Special Issue

Wave Energy Technologies and Optimization Methods

Message from the Guest Editors

In recent years, wave energy related technologies have developed considerably, and have garnered more and more interest and support from the energy industries as a promising alternative energy resource. This is mainly because wave energy has the highest power density compared to solar and wind energy sources, while having minimal environmental impact. However, these technologies are not fully developed and immature compared to wind renewable technologies. For this reason, to develop the commercialization of ocean wave energy technologies and maximize the total power output of a wave farm, a wide range of optimization techniques have been performed including various numerical, genetic, swarm, and evolutionary algorithms. Recently, in order to develop different components of wave energy converters such as geometry parameters, layout and power take-off settings, advanced and hybrid optimization frameworks have been proposed.

This Special Issue invites articles that incorporate the application of state-of-the-art optimization methods in wave and tidal energy.

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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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