

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.

Guest Editors

Dr. Mehdi Neshat

Center for Artificial Intelligence Research and Optimisation, Torrens University Australia, Adelaide, SA 5000, Australia

Dr. Soheil Esmaeilzadeh

Department of Energy Resources Engineering, Stanford University, Stanford, CA, USA

Deadline for manuscript submissions

closed (31 August 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/77651

Energies

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)