

Special Issue

Design Optimization and Optimal Control of Renewable Energy Systems

Message from the Guest Editors

The interest in harnessing renewable energy resources is continuously growing, spanning from electricity generation to industrial solutions and from large central installations to agile distributed units. One of the main concerns in the design of systems that utilize renewable energy sources is the intermittent character of the resource availability. This depends on the type of resources and the employed technology, while often multiple resources and technologies are integrated together and need to perform in a well-balanced manner. This Special Issue solicits papers addressing the whole spectrum of design and control of renewable energy systems throughout all temporal, spatial, and development scales. The aim is to offer the state-of-the-art of the most advanced techniques, new theoretical concepts, tested and verified methods, and their applications in solar, hydro, wind, biomass and ocean energies. Potential topics include (but are not limited to): Central and Distributed Renewable Energy Systems; Solar, Hydro, Wind, Biomass, and Ocean Energies; Autonomous and Integrated Systems; Numerical and Experimental Methods; Power Generation; Energy Conversion and Storage

Guest Editors

Prof. Dr. N.C. Markatos

Department of Chemical Engineering, National Technical University of Athens, 9 Heroon Polytechniou Street, Zografou Campus, 15780 Athens, Greece

Dr. K. Kakosimos

Department of Chemical Engineering, Texas A&M University, College Station, TX, USA

Deadline for manuscript submissions

closed (31 July 2020)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/27184

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)