



Advancing Grid-Connected Renewable Generation Systems 2019

Guest Editors:

Prof. Dr. Frede Blaabjerg

Prof. Dr. Yongheng Yang

Dr. Ariya Sangwongwanich

Dr. Elizaveta Liivik

Deadline for manuscript
submissions:

closed (31 August 2020)

Message from the Guest Editors

Dear Colleagues,

Renewables are making pace to become a major source in the energy paradigm. In order to enable a wide-scale integration of renewables, advanced grid-interfacing control solutions are strongly demanded. On one hand, power conversion efficiency and reliability are the keys aspects that need to be addressed in order to maximize the total energy yield, thereby reducing the overall cost of energy. This can also be seen in the updated regulation for the grid-connected renewable energy system. Power electronics are the key enabling technology for achieving the above demands, and have been widely used for renewable energy systems such as wind turbine, solar energy, and energy storage systems. Advancing the design, control, operation, and integration of power electronics has the potential to improve the performance of the grid-connected renewable energy systems. This Special Issue, thus, serves to address the present challenging issues regarding the integration of renewable energies into a sustainable and resilient power system.

Prof. Dr. Frede Blaabjerg
Prof. Dr. Yongheng Yang
Dr. Ariya Sangwongwanich
Dr. Elizaveta Liivik
Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)