Special Issue

Advancing Grid-Connected Renewable Generation Systems 2019

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Frede Blaabjerg

Prof. Dr. Yongheng Yang

Dr. Ariya Sangwongwanich

Dr. Elizaveta Liivik

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

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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

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