

## Special Issue

# Design, Modeling and Control of Power Electronic Converters for/in Renewable Energy Systems

### Message from the Guest Editors

The aim of this Special Issue is to present solutions to challenges related to VRE modeling, specifically wind and solar PV generation. Topics of interest include but are not limited to:

- Detailed VRE modeling (wind turbines, wind power plants, and solar PV power plants) to provide accurate response and design, with analysis focused on the power converter;
- Simplified VRE modeling (wind turbines, wind power plants, and solar PV power plants) with application to power system studies; model assessment in accordance with national and international Standards, such as IEC 61400-27 or WECC, with a focus on the power converter;
- Modeling of new control strategies for power converters;
- Model validation;
- Grid support and ancillary services provided by wind and solar PV generation with power converters;
- Power quality;
- Novel approaches to maintenance for power converters;

Welcome to contribute!

### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2021)



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

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