



## Advanced Control Methods and Artificial Intelligence Applications in Grid-Connected Inverters

Guest Editors:

**Dr. Jinrui Tang**

School of Automation, Wuhan  
University of Technology, Wuhan  
430070, China

**Dr. Yuanchao Qiu**

College of Engineering, Ocean  
University of China, Qingdao  
266100, China

Deadline for manuscript  
submissions:

**15 August 2024**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to provide a comprehensive platform for the exploration and dissemination of cutting-edge research using advanced control methods and artificial intelligence (AI) applications in grid-connected inverters. We welcome contributions that showcase the practical application of advanced control and AI methods in grid-connected inverters related to the smart grid across diverse engineering disciplines. The scope encompasses, but is not limited to, grid-connected inverters, microgrid, distribution networks, and transmission networks. This Special Issue seeks to highlight novel aspects of advanced control and AI methods utilized in real-world grid-connected inverter applications, emphasizing innovation, efficiency, and advancements in the field.

1.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## 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.

## 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), CAPus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

## Contact Us

*Electronics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)