

## Special Issue

# Smart Inverters in Power Grids and Renewable Energy Systems

### Message from the Guest Editors

The role of inverters in power grids is diversifying beyond just providing the maximum available power to the utility and local loads. The individual features of inverters are attracting the attention of many researchers, while the presence of concurrent features leads to new challenges. Therefore, in this Special Issue, prospective authors are invited to submit original contributions and survey papers on the topics encompassing smart inverters. Potential topics include but are not limited to:

- Detection of and operation under low voltage ride through;
- Control schemes for grid-forming mode of inverter operation;
- Corrective actions under internal and external faults;
- Stability enhancement techniques under weak grids;
- Seamless transition between inverter modes;
- Supervisory or decentralized controllers for networked inverters;
- Enhancing situational awareness of inverters.

### Guest Editors

Prof. Dr. Behrooz Mirafzal

Dr. Akanksha Singh

Dr. Aswad Adib

### Deadline for manuscript submissions

closed (31 December 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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