

## Special Issue

# Applications of Advanced Control in Electrical Systems

### Message from the Guest Editors

This Special Issue aims to explore the transformative impact of advanced control technologies on electrical systems. The focus is on showcasing the latest research, innovative methodologies, and practical implementations related to advanced control methods that enhance the reliability, efficiency, robustness, and other performance of electrical systems. We encourage all researchers working in this area to submit papers to this Special Issue. Topics of interest include, but are not limited to, the following:

- Control algorithms for maintaining grid stability;
- Control strategies for addressing the intermittency and variability of renewable energy sources;
- Control techniques for ensuring the stability of power conversion systems;
- Control mechanisms for integrating EVs and energy storage systems into the grid;
- Control methods for improving the transmission efficiency and dynamic response in motor drive systems;
- Innovative control approaches, such as sliding mode control, model predictive control, adaptive control, and intelligent control, and their applications in electrical systems.

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### Guest Editors

Dr. Xiaoning Shen

Dr. Xinpo Lin

Prof. Dr. Jianxing Liu

Prof. Dr. Jose Ignacio Leon Galvan

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### Deadline for manuscript submissions

15 February 2025



## 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

Prof. Dr. Flavio Canavero

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